Company	Experience	Year
Aditya Birla Corporate IT , Mumbai	Worked on different projects in the field of technology consulting. Objectives of the project: To plan, strategize and implement (and run adoption campaigns if necessary) provide ABG with the edge by use of technology. In short to transform ABG from a pen and paper. Outcomes of the project: Integration of new technology, establishing new work flows etc. Major Learning Outcomes: How consulting projects in an inhouse consulting group works. Brief Description of working environment, expectations from the company: True corporate with a lot of politics at times, not inclusive of everyone though. Can not help notice that BITS students despite BITS being a part of ABG, are often overlooked. And little or no effort is taken into structuring the program.	2016-17-sem2
Aditya Birla Fashion and Retail Ltd. , Bangalore	Worked closely with the industrial engineering team to develop an excel based tool to estimate the production time of a shirt of a given design. The tool was developed to be used by Product and Design team of Peter England Brand. Tool used (Development tools - H/w, S/w) : MS Excel Objectives of the project : To create an automatic SMV calculation tool Major Learning Outcomes : 1) Overview of ABFRL and inner workings of ABG 2) In-depth knowledge of the fashion and retail industry 3) The production process and standards at Garment manufacturing units. 4) Advanced Excel Skills 5) Communication skills and Presentation skills Details of Papers/patents : None. Brief Description of working environment, expectations from the company : Unlike a core engineering company, fashion and retail company is more flexible and relaxed. ABFRL had a very vibrant and colorful culture. The work in this company is very fast paced, but it manages to keep the work place stress-free. ABFRL is a employee centric company with a lot of emphasis on their individual growth e.g. they have an internal university programme for employees known as ACE under which they can enrol in whatever courses they think can help advance or change their roles. Being a part of a much larger conglomerate: Aditya Birla Group, one experiences not only the culture of a company but also that of its parent group. The group's management is always in constant touch with company's management and there is a lot of transfer of knowledge and personnel. It is a good place to work if interest lies in textiles, fashion or retail industries Academic courses relevant to the project : None	2018-19-sem2

Company	Experience	Year
Aditya Birla Fashion and Retail Ltd. , Bangalore	Worked on multiple projects, initially was given very small work which was part of large projects. Later projects involved many Analytics, ML modeling and Optimization techniques which are based on the issues faced by Birla Group Industries. Tool used (Development tools - H/w, S/w) : Objectives of the project : 1)Reduction in Turn-Around-Time between plant and Warehouse. 2)Network Optimization for distribution cost reduction 3)Predictive modelling of rolling process parameters for improving Aluminum recovery. Major Learning Outcomes : Understanding Business part of Analyzing a problem. Knowledge of various skills required to work for the projects. Details of Papers/patents : Brief Description of working environment, expectations from the company : Great place to work. Expectations are high as well as the responsibility given. Deadlines are strictly followed. People around are very helpful. Academic courses relevant to the project : Operation research, Probability and Statistics, Programming	2018-19-sem2
Aditya Birla Group IT, Mumbai		2015-16-sem2
Aditya Birla Group IT, Mumbai	The skill set that I learned was about the important aspects of Communication with the senior most people in the Organization, about strategizing regarding the launch of such a massive Project. I also gained technical knowledge about Advanced Excel, macros and Pivot so as to perform analysis on the data received. I performed a tool analysis of all the available tools in the market. SurveyGizmo was ranked #1 and hence I chose that as the tool I would use for my Project. The tool was more advanced and user friendly as compared to the tool used last year, which got me the feedback from a Vice President that the Survey took only 6mins to finish on mobile. The Survey was made shorter and lots of questions were dropped, taking into account suggestion from CIOs and SPOCs about reducing the length of the Survey, because of which the completion rate was about 70%, meaning 70% of the entire population who took the survey completed it by answering every single question in the Survey, which is the highest rate achieved so far in the history of IT-CSAT. I worked with the Corporate Communications to get the Questionnaire re-designed to make it more user friendly and easier to comprehend. I came up with a new idea of customized promotions for Businesses so I asked CIOs for a photo of them and a quote by them about why IT-CSAT was important	2015-16-sem2

Company	Experience	Year
	for them and their Business and why should their employees take the Survey. Earlier the idea was to do the same activity with all our Portfolio Leaders, but I learnt to crowdsource the idea and went to ask PLs about it. The AVP of the Company asked me to instead have the activity centered around the CIOs as that would have a greater influence. With the help of the Corporate Communications team, Banners/mailer were designed by me made from scratch with new content and new designs The one great thing about the organization is that it has people at senior most positions who recognize the merit of newcomers so accurately that he/she is entrusted with such great responsibilities inspite of being a newcomer. The exposure and the kind of work a newcomer gets to do here knows no bounds. From writing emails to the CIOs, preparing reports for them, pushing promotions with the SPOCs at the units levels, holding webinars (I hosted two of them to give the SPOCs a walk-through of the ITCSAT process.). Last year a lot of the coordination work was done by another senior who was mentoring an intern in my position, but this year since my senior was on leave the entire one week before the Survey launch, I coordinated with every single SPOC on the phone and even the ones abroad regarding the promotional activities, translation work, all the pre survey activities. This year the survey was on for about two weeks as compared to last year's 4 weeks (27days) and yet the overall response rate was overwhelming. And, as promised to the Group CIO, I broke all the records of the participation count of the years until now and carried out the entire analysis of the post-survey in 50% less time than last year.	
Aditya Birla Insulators , Halol		2018-19-sem2
Aditya Birla Insulators , Halol	Project: pug mill barrel standardization and new barrel validation aim of this project is to find the reason behind circular crack rejections and to give suggestions to reduce them and standardize the barrel setups to be used in various barrels Tool used (Development tools - H/w, S/w) : Abaqus Objectives of the project : Reduce circular cracks Major Learning Outcomes : Learned abaqus Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : No	2018-19-sem2

Company	Experience	Year
Aditya Birla Insulators , Halol	Topic: Recovery of waste metal flange from scrapped Insulators During discussion with my mentor, we came to conclusion that a new cutter will help solve the challenging issue of extracting metal flanges from broken/rejected insulators. This will help save costs by reusing the metal caps. A new cutter body and tool was designed in a 3D cad software(fusion 360) and stress analysed using paramaters estimated for worst case scenario whilst the tool shall come to a complete stoo during working and still be able to handle all the torque from motor. Also a simple and easy to implement design was made. A report was submitted to my mentor, who liked the design and was in process to find fabrication vendors to make the cutting tool. Tool used (Development tools - H/w, S/w) : 3D design CAD software, fusion 360 Objectives of the project : To design a cutter tool to help extract metal flanges from rejected insulators Major Learning Outcomes : Product design and practical usage of software tools during design phase. Details of Papers/patents : Not Applicable. Brief Description of working environment, expectations from the company : Working environment is good, and support from mentors is acceptable. But lack of support in case of providing softwares does become a bottleneck. Academic courses relevant to the project : FEM, Product Design, Strength of Material, Material Science.	2018-19-sem2
Aditya Birla Insulators , Halol	Designed SOPs for PPC department for processes like Extrusion Planning, Packing Indentation, Metal Part Indentation etc. Apart from that I worked on Warehouse touch points and listed down each activity that is involved and the risk associated with it. After that I had to suggest some controls to minimize the risk. Apart from that I was assigned to check the progress of delivery of insulators corresponding to the proposed plan. Tool used (Development tools - H/w, S/w) : MS Excel, MS Word Objectives of the project : To design SOPs for PPC and Warehouse department. And to suggest controls to lower down the risks. Major Learning Outcomes : Adaptation to corporate culture, etiquettes of communication, punctuality, networking are some of the important things. Apart from that I learnt more about MS Excel and basic dynamics of Production Planning & Control department. Details of Papers/patents : Academic courses relevant to the project : None.	2019-20-sem2

Company	Experience	Year
Aditya Birla Insulators , Halol	I was involved in the project having Analysis of layout management and consulting changes. Second project was on product costing and identifying losses. Tool used (Development tools - H/w, S/w) : FlexSim, Excel Objectives of the project : Consulting Layout Changes and minimizing losses Major Learning Outcomes : knowing deeply about management and working closely to core manufacturing industry Details of Papers/patents : none Academic courses relevant to the project : CAD, Finance	2019-20-sem2
Aditya Birla Science & Technology Company Ltd. , Mumbai		2018-19-sem2
Aditya Birla Science & Technology Company Ltd. , Mumbai	Tool used (Development tools - H/w, S/w) : MATLAB, PYTHON, Microsoft Office, Origin Objectives of the project : 1. Development of a correlation between Thermal imaging to the moisture content of fiber bed in a conveyor belt dryer. 2. Prediction of moisture using the Artificial Neural Networks and Regression analysis. 3. Development of digital twin of conveyor belt dryer using Process modeling. Major Learning Outcomes : 1. Knowhow of the fiber production and application of chemical engineering in the Fibre and textile industry. 2. Application of theoretical knowledge in actual industry scenario. 3. Learning of a High-level programming language named Python. 4. Learning a new field of study, Data analytics and its application in chemical engineering and in the chemical industries 5. Application of the concept of Digitization, Automation and Industry 4.0 Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : advanced Process Control, Chemical Process Optimization, Advanced Transport Phenomenon	2018-19-sem2

Company	Experience	Year
Aditya Birla Science & Technology Company Ltd. , Mumbai	Modelling of a chemical process is an imperative step for reaching a quality target. Currently modelling is being done by extracting online data, followed by modelling of this offline data. The developed model is then applied on the process. Thus, it would be efficient if modelling would be done online. Regression techniques that are used for online estimation and control generally yield poor models if the data is not rich enough. In this report a modified block-wise dynamic recursive PLS technique that is based on selection of rich data has been studied for online adaptation and control. Because of its ability to accommodate a wider range of forgetting factors, the technique is found to track the dynamics of slow as well as fast changes in the processes. The reviewed algorithm has been studied with respect to the carbon black process. In an effort to self-tune the carbon black process, a deeper understanding of the reviewed technique has been done by reviewing the basic techniques such as Principle component analysis, partial least square technique and recursive partial least square technique along with an in-depth review of the carbon black process itself. The methodology towards achieving the goal of self-tuning has also been proposed along with a future vision to attain more clarity. Tool used (Development tools - H/w, S/w) : matlab, ms office, origin Objectives of the project : • To understand Regression and its different types • To understand data analysis • To study different self tuning methods and their algorithm • To codes for previously developed tuning methods • carbon black process (mainly reactor) • analyze Matlab To develop a Matlab code for self tuning of To model the real time plant dataset using Partial Least square Regression and Modified Partial Least square Regression . • their predictive capability. To compare Major Learning Outcomes : • The modification made in the forgetting factor calculation gives better results. • Month by month addition of new datasets allows us to view change in model adaptation. • From the given graphs it can be concluded that Modified Block-wise Recursive PLS is better at model adaptation as compared to Partial Least Square Regression because: o Model adaptation is faster o Error from the actual values is smaller. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Process Modelling	2018-19-sem2

Company	Experience	Year
Aditya Birla Science & Technology Company Ltd. , Mumbai	The project 'Life Cycle Analysis of Cruicial Elements involved in Aluminium Smelting Plant' tends to provide insight on the overall Aluminium Smelting plant and thereby develop a generic mass balance model to aid in the prediction of volatile fumes and gases being emitted from the plant and in the analysis of the impact of impurities present in alumina and carbon anode raw materials. Tool used (Development tools - H/w, S/w) : Microsoft excel, Microsoft word, Microsoft Powerpoint Objectives of the project : Objectives are to understand the carbon anode manufacturing process (green anode plant and anode baking furnace) ,to perform element wise mass balance calculations for more precise monitoring and control of the process and to analyse the impact of impurities which are present in the raw materials Major Learning Outcomes : This project gave me the idea about how chemical engineering, metallurgical process and data analytics can go hand in hand. As this project is part of the Digital Twin journey of the Aluminium Smelting plant, introduction to various dimensions of artificial intelligence was also one of the learning outcomes. Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment in the company is very good. Mentors are quite approachable and always ready to help. The company has provided me a great level of exposure in the last 5.5 months. Academic courses relevant to the project : Process Calculations, Reaction Engineering, Chemical Engineering Thermodynamics	2018-19-sem2
Adobe Systems , Bangalore		2018-19-sem2

Company	Experience	Year
Adobe Systems , Bangalore	Animate is a vector graphics based tool for creating animations. So, in the animation industry every frame is drawn separately, then every frame is colored separately. This is a very tedious task and takes a lot of time. So, we tell the user to color the first frame, and we color the remaining frames taking this as reference using a machine learning algorithm. We called this feature Auto-Color Another problem we had to solve was finding an algorithm to close small gaps as we cannot color open regions. So, we developed an algorithm for this problem. We called this feature Auto-Close. I was part of a two man team for adding this feature into Animate. Implementation of Auto-Color and Auto-Close was done completely by the both of us. We researched for the machine learning algorithm to use for Auto-Coloring and the features to use. Auto-Close implementation was also created by the both of us. It was very challenging to go through the massive code base and integrate this feature to the product. This feature went into two Pre-Release versions as well, and received customer feedback as well. Tool used (Development tools - H/w, S/w) : Microsoft Visual Studio, Adobe Animate CC Objectives of the project : Auto Color and Auto Close frames in Adobe Animate Major Learning Outcomes : Importance of feature extraction in a machine learning algorithm Details of Papers/patents : Brief Description of working environment, expectations from the company : Work culture is great as they don't overload you with work. You are given achievable deadlines, so there is very little work pressure. You are treated as a full time employee and not just an intern. Everyone in my team was very helpful and it was a great experience. Academic courses relevant to the project : Machine Learning, Artificial Intelligence, Neural Networks, OOP	2018-19-sem2
Adobe Systems , Bangalore		2019-20-sem2

Company	Experience	Year
Adobe Systems , Bangalore	I worked on two different projects during my internship, both were aimed at researching and developing of new intelligent features for the Adobe LightRoom application, the projects were titled "Auto-complete edit suggestions" and "Content-aware smart presets" both involved image processing, deep learning, and android development. Both the features were independently built and integrated into the existing LightRoom application. Tool used (Development tools - H/w, S/w) : Android Studio, Python, Docker, OpenCV Objectives of the project : Implementing new intelligent photo editing features Major Learning Outcomes : Android development, Code Management, Image Processing, Computer vision and Machine Learning techniques used for images. Details of Papers/patents : filled a patent titled "Auto-complete Edit Suggestions" in the USPO. Brief Description of working environment, expectations from the company : Timings were flexible and work culture was good Academic courses relevant to the project : Data Structures and Algorithms, Image Processing, Object Oriented Programming	2019-20-sem2
Adobe Systems , Bangalore	I worked on 3 different research projects. The first project is about the estimation of object homogeneous defocus map estimation. We created a complex neural network architecture to find the defocus map of the given image. A combination of CNNs and Image processing modules were used to create the defocus map. The second project is about creating an automatic crop tool for the export workflow of Lightroom. We created a two-stage process to do this. The first stage gives the subject area in the image and the second stage does optimizations to maintain the image composition after the crop. The third project is about building Probabilistic Graphical Models in improving Lightroom performance. Tool used (Development tools - H/w, S/w) : Jupyter Notebook (and google co-lab), HQL Python packages: Tensorflow, PyTorch, Seaborn Objectives of the project : To estimate the defocus map from single image. Major Learning Outcomes : Exposure to many industry level state of the art machine learning models and image processing techniques. Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment is good. The company expectations will be high. Academic courses relevant to the project : Digital Image Processing, Machine Learning and DSA	2019-20-sem2

Company	Experience	Year
Adobe Systems , Bangalore	This Project report is about analysing and estimation of object homogeneous defocus map of an image and building automatic crop for export workflow using image processing and Machine learning techniques. In our first project, we first tried finding defocus map using basic image processing techniques such as edge detection using Sobel operator and Laplacian operator continued with some advanced image processing techniques such as canny edge detector. Since plain edge detection techniques are not giving good results, we turned to machine learning models such as holistic edge detector. Edge detectors are giving good results when the defocused part of the image has very less variation in intensities. As we know that this will not be the case for every image, we want to find defocus map by finding the function/ kernel that is causing the defocus. And also, we are using some deep learning models (advanced models of CNNs) to find the defocus map. For the second project, we built a crop tool that automatically crops an image with the user given aspect ratio while maintaining the image composition and aesthetics. We combined a neural network architecture and an optimisation module to maintain the image composition and aesthetics. This tool is designed to combine with export workflow of LrClassic so that it would significantly decrease the time spent by user while exporting batches of images Tool used (Development tools - H/w, S/w) : Jupyter Notebook, Lightroom, SQLite,Plotly Objectives of the project : Object Homogeneous Defocus Map Estimation and Automatic Crop for Export Workflow Major Learning Outcomes : I had to explore different architectures for the model to recognize the region of interest and experiment on it. There were a few mathematical challenges while optimizing the model to process the images. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : DIP, ML	2019-20-sem2

Company	Experience	Year
Adobe Systems , Bangalore	Worked on two different projects (together with one more intern) in the domain of Image Processing. The projects involved implementing two experimental features in Adobe's photo-editing android application called Adobe Lightroom. The ideas for the projects were suggested by the mentors, which we had to expand upon and implement. Tool used (Development tools - H/w, S/w) : Android Studio, Git, Jupyter Notebooks Objectives of the project : To create working implementations of the two features, alongwith the UI, which were initially just ideas and create working demos for them. Major Learning Outcomes : Android Development, Machine Learning, Collaboration of work through Git Details of Papers/patents : Obtained a patent for the first project. Brief Description of working environment, expectations from the company : The work here is quite good if you are into things like Image Processing, Machine Learning. A lot of cuttingedge research is continuously going on in most of the teams with many people applying for patents each month. P.S. A big plus if you use Adobe products in your day-to-day life as you'll get to see the research and effort that goes behind them. Academic courses relevant to the project : Object Oriented Programming, Networking, Software Development for Portable Devices, Machine Learning courses	2019-20-sem2
Adobe Systems , Noida		2019-20-sem2

Company	Experience	Year
Adobe Systems , Noida	I was in the Media and Data Science Research Lab.My topic of research was NLP on Big Code.During the entire duration I was involved in two projects.First project was to improve the current Bug detection techniques,I made a neural network model to capture the semantics of code to predict,localize and repair errors that might appear during run-time.It was a challenging task with little or no data available.The approach I took was making synthetic bugs to accomplish the given task.The other task was to improve the embedding of code for various downstream tasks like code clone detection and code classification. Tool used (Development tools - H/w, S/w) : Python, Pytorch and various other Machine learning utilities Objectives of the project : Bug Prediction and Making context rich code embedding Major Learning Outcomes : Exposure to research and deep learning Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Machine Learning, NNFl ,Compilers,DSA	2019-20-sem2

Company	Experience	Year
Adobe Systems, Bangalore	The experience of Practice School 2 at Adobe has been great and fulfilling. The time spent at Practice School plays a significant role in preparing one for the industry and normalizes one's expectations. It also serves as a teaching experience in matters of professional relationships and teamwork. Practice School projects are essential as they push students to learn new technologies, expand their skillset and get better acquainted with industry standards and guidelines. Practice School 2, being a 5-month long program, provides opportunities for completing several projects and make a mark on the product, unlike most summer internships. Since PS-2 is taken up in the final year of our college education, the projects undertaken much more relevant and in sync with our disciplines as compared to PS-1 projects. The work done in this period can be added as valuable work experience on our CVs. The industry experience makes one realize the gaps and similarities between theory and practice. While the courses taught on campus give us enough Computer Science concepts, but not much regarding implementation. Also, the academic knowledge does not prepare students to work on large codebases. I was part of a product team mainly responsible for the development of Adobe ColdFusion, a web & mobile app rapid development platform. ColdFusion is an enterprise server product which provides many abstractions and features to speed up the development of applications. Over the course of 5 months, I got to work on a few products owned by the team. My work included upgrading existing features, making performance & UI enhancements, and fixing critical bugs. Working in a development team, one should not hesitate to ask for help as there is a lot of emphasis on meeting deadlines. This also hones your ability to work with others in a professional environment. As for the skillset required to work on such projects, one should be proficient in Object Oriented Programming and networking concepts. Overall, I was very pleased with my time at Adobe because of its great work culture and the very competent group of people I got to work with. It is also good opportunity for those looking for full-time offers. I highly recommend Adobe to people for the amazing time and experience.	2015-16-sem2
Adobe Systems, Bangalore	Working at Adobe Systems, Bangalore has been an extremely enriching experience. I am working as a product development intern in the Adobe ColdFusion team. The team has launched a new release in February 2016, with which they shipped their very first edition of API Manager. My project focused on	2015-16-sem2

Company	Experience	Year
	building a new feature, namely portal customization, for the September update of API Manager. This being a huge feature, to be worked on from scratch, there was immense work that needed to be done. Right from researching the available API Managers and their solutions, to creating the requirements and specifications for this feature to finally starting development on a few components and testing them – I got to experience the entire timeline of how a feature is developed in any tech giant. Talking about skill set, I never thought I could learn so much so quickly in so less time – template engines, content management systems, building and using REST APIs, Angular JS, writing servlets, security filters, persistence layer interaction and implementing session management layer. Adobe being a MNC, I got to experience the way these leading tech companies work. I was treated as a full time employee, being made feature owner of a high priority requirement. As a result, work load was huge and it was hectic trying to match up to expectations of the management. However, this is what pushed me to learn more and give my best. As the feature requirements were being built, the developers involved in this project had frequent meetings with the product manager and engineering managers. I was directly involved in the brainstorming sessions, which helped me understand the way companies respond to customer requirements and decide on any new feature. I was also responsible for writing the spec document for the internal wiki, as well as from time to time I submitted various kind of requirements documents and matrices. Learning to draft such clear and comprehensive documents is a valuable skill that will help me in the tech industry even in the future. As such, working these 5.5 months at Adobe, has imbibed in me various technical skills as well as soft skills. How to work in collaboration with a developer team, how to understand the expectation of management, how to learn various skills and understand existing code on my own and most importantly how to write production level code that can be shipped once tested – these are just few of the takeaways from this internship. The experience of working at a technological innovative leader like Adobe, will always be a helpful one for my career in the IT industry.	

Company	Experience	Year
Adobe Systems, Noida	The five months of my PS-II at Adobe Systems, Noida has been a terrific learning journey for me. I worked here as a part of the Adobe InDesign team. My job here was to ensure backward compatibility in InDesign so that any of the file made in the new version of the software can open in the older versions of the software. I tried to develop a general way of ensuring this under the guidance of my mentor Pushp Parag Agarwal. My work here taught me the use of design patterns as well as other important concepts of object oriented programming. I was introduced to the wonderful codebase of InDesign and here I realized how working in the software industry is very different from what we are taught as college course work or our college projects. One of the most important skill that I acquired here was the skill of debugging which is very important in any of the software industry. The programs are subjected to large number of tests so as to make them as bug-proof as possible. Also, in such codebase where all files are so much related, change in one of them can easily damage other parts of the software one has to be very careful while writing the codes. Since my work involved how the process of file opening takes place so I had to be all the more watchful while changing any of the codes. Moreover, even while writing a program, a lot of emphasis is laid on the fact that others can understand the code if any further changes are required. The environment at Adobe Systems is very friendly and all the people are very supportive. Here I got an opportunity to interact with and learn from many experts who already have a lot of experience of working in the industry. Here many seemingly unresolved questions were solved with the help of these mentors. I learned to focus on my problems by solving the problem at hand one step at a time in a swift but organized way. This gave me the confidence that in the future will empower me to tackle any problem at hand. Overall, I enjoyed Adobe as a PS station, the facilities here are very good. Every individual enjoys flexible timings too. Also there are a lot of team organized to increase bonding between the team members.	2015-16-sem2
Adobe Systems, Noida	Practice School II marked my very first foray into real industry environment. I worked with the InDesign team at Adobe under the able guidance of Mr. Gaurav Bhargava and Ms. Shailja Gupta. My project was titled "Intelligent Merge of Reimported Text in Adobe InDesign". Briefly put, I worked on implementing a system that preserved the design changes of an InDesign file whenever an updated version of the same file	2015-16-sem2

Company	Experience	Year
	was reimported from a text file by incorporating only the points of change. I started off from plain text with multi language support and extended the functionality to include footnotes and tables. I implemented the regular two-way difference and merge generating algorithm and designed the threeway algorithm that worked with two-way modules in a bottom up fashion. On the way, I added many subfeatures that helped save formatting/design information on text. This entire module was interfaced with the front-end. The work environment at Adobe was extremely enriching. When I compare myself from the first to the last week, I see astronomical change in how I perceive a problem and how I attempt its solution. I owe this to the clear definition of my problem statement and the excellent mentorship I received here. The fact that I am new to the industry was well respected and I was handed an open ended problem that could have been as simple or as convoluted as I wanted it to be. This relieved me from any burden of expectation but at the same time challenged me to give it my best shot, and this worked wonderfully for me on the learning front. Previously, I hardly had any experience in C++ programming environment and the first glance at the entire code base of InDesign overwhelmed me. This feeling eventually eased out when I developed what I like to call 'programmer's instinct', which helped me rummage through the current codebase efficiently, find relevant existing functions and create functions of my own from the scratch. I was supported throughout this quest; my mentor even sat next to me and helped me find and modify code when I had just started writing my program (the stereotype I had that people working in industry are rude and unhelpful to new entrants went to shreds)! The key here was to have a basic understanding of OOP paradigm, data structures and most importantly, tenacity. Everything else can be worked out gradually. I met and interacted with a lot of new people here too. This entire experience was rewarding at personal, social and intellectual levels. I am very grateful to Practice School Division and Adobe for this opportunity.	

Company	Experience	Year
Adobe Systems, Noida	I got an opportunity to work on one of Adobe's most widely used products – Adobe Illustrator. The domain of my work was optimization and enhancing two important features in Illustrator. The company has a very open and friendly atmosphere, hence all inputs are valued, whether it be from the managers or the interns. The quantum of learning at Adobe has been immense. I learnt about the application of classroom concepts at an industry level and the use of new technologies. The code conventions followed in the industry are different; readability and efficiency of the code are as important as the functionality it achieves. The interactions with the various connoisseurs were vital in developing my vision. These 5 months of internship, under the guidance of my mentor, enhanced my thinking skills and problem solving strategies. This process of handling real life problems has imparted the confidence in me to solve similar problems in future. The feedback from my mentor and manager led to a continuous improvement of my performance. Moreover, this internship has taught me team work and office-work ethics. Overall, it has been an enriching experience, to be able to elevate my technical skills at one of the pioneers of IT industry; as well as in terms of personality development. The fact that I have been able to contribute to Adobe's code base is an accomplishment from PS2.	2015-16-sem2
Adobe Systems, Noida	Comments: Excellent station for CS students. Students are made to work on Adobe products, either developing new features for an existing product or improving the efficiency of existing features. Challenging and learner-oriented work with excellent guidance. Student	2016-17-sem2

Company	Experience	Year
Adobe Systems, Noida	Practice School II at Adobe Systems Noida has been a steep learning curve for me. I worked with Photoshop Express team under the guidance of Mr. Surendra Sachdeva. I worked on two sub-projects: Creative Edits and Creative Capture effects. Briefly put, Creative edits team works on post capture artistic effects and Creative Capture on live and post selfie effects. My work taught me the use of Model View Controller pattern and other important design patterns. I was introduced to the huge codebase of Photoshop Express which improved my debugging skills and my style of programming. Since the codebase is very large , one has to think of all the test cases possible and write bug free code as slight change in code can affect large part of dependent codes. Also while writing the code, importance is given to understanding the code and then making the changes. The codebase is mostly in C++ and Objective-C and one has to develop good knowledge of these languages to modify the codebases. I was treated as full time employee and given the responsibility of the feature which pushes oneself to learn more and match the expectations. The features which were assigned to me were on iOS platform, so one has to learn the framework for iOS Development. Also I have to collaborate with many Adobe researchers which was very informative and helped me learn new technologies. Objectives of the project: Create new effects for Photoshop Express App. Outcomes of the project: Created many live and post capture effects for the app. Major Learning Outcomes: Developed deep knowledge of C++, Objective-C languages, Core Image library and frameworks of iOS development. Brief Description of working environment, expectations from the company: The environment at Adobe is very good and one can learn from lot of experienced people in this field. Mentors are very helpful and supportive and discussing things with them gives idea of solving challenging problems. I enjoyed the Adobe Systems as a PS2 and there are many facilities available in the campus. One can avail these facilities free of cost and also Adobe has flexible timings. There are many events organized in the campus to strengthen the bonding among team-mates. This five months stay at Adobe has changed the way I approach a problem and finally get to the solution. I am grateful to Practice School Division for giving this wonderful opportunity and develop my personal, social and intellectual skills.	2016-17-sem2

Company	Experience	Year
Adobe Systems, Noida	Worked on one of adobe's ios app. Work was basically to implement various features in the app workflow so to increase the user base of the workflow from thousands to millions. Tools used (Development tools - H/w, S/w): Xcode, Objective C. Objectives of the project: To increase the number of users of app. Outcomes of the project: Features were incorporated in the app there was improvement in the numbers. Major Learning Outcomes: ios App development. Brief Description of working environment, expectations from the company: Working environment is good. Company expects that you implement the features so that they can used by millions of people.	2016-17-sem2
AFour Technologies , Pune	Student	2018-19-sem2
AFour Technologies , Pune	Worked on web application architecture focusing on scalibility and performance. Involved in creating AFour ERP from scratch. Wrote Python scripts to automate things Tool used (Development tools - H/w, S/w) : ReactJS, Prodigy, Python, NodeJS Objectives of the project : Creating a single portal AFour ERP to manage everything inside the organisation Major Learning Outcomes : Web application architecture Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Great place to work and learn Academic courses relevant to the project : NA	2018-19-sem2
Akira Consultancy Pvt Ltd	PS-II provided me an opportunity to put my theoretical knowledge into practice. It gave an industrial exposure and an experience of the real world scenario suitable for my technical background. After having spent a duration of five and a half months at my PS - II station, Akira Consultancy Pvt. Ltd. I can positively say that I have gained a lot of confidence and expertise to face the challenges in the industrial world. At Akira, my project is on Data warehousing and analytics. We gather data regarding the sales from our clients' servers, process the data, cleanse it, and feed it into our databases which were designed based on requirements, this is done using software like SQL, Management studio etc., Data in those databases won't be able to express much unless reports are constructed. Only then data can be visualized by the individual. Once the report are build, using Qlikview, clients are given access to them, so that they can take executive decisions based on their sales performances. I	2015-16-sem2

Company	Experience	Year
	learnt some cutting edge technologies as a part of this project which will definitely help me in my future prospects. Apart from my core discipline knowledge, I gained knowledge regarding few software like SQL, Qlikview etc, which are used even in Chemical engineering (experimental data) and Biological Sciences (genetics) in handling huge data. Not just the theoretical knowledge, but a hands-on experience. Apart from the project PS-II also gives us industrial exposure. I learnt how coding standards are in an industrial environment. Modulation of the code is of utmost importance. This is because a major concern of the institutions is scalability of the code. The code should remain usable even after a particular person is off the project. It should be understandable to everyone. Thus, variable names, packages, documentation etc. need to follow certain rules as specified by the company. In an industrial environment, professional conduct is also of a lot of importance. PS-II gave me an exposure to this area as well. Addressing your colleagues and documenting all conversations via emails is very important in a work environment. It is my first experience in an industrial environment and this program has helped me to smoothly build my way from an all-academic environment to an industrial environment. Five and a half months is ample time for this transition. PS - II expanded my knowledge domain and built up my confidence to lead myself in this competitive industry. During my internship at Akira, my design of the reports that were built, were appreciated and approved. It was a minor achievement, where my efforts in the fields of art, data analysis and coding were appreciated.	

Company	Experience	Year
Akira Consultancy Pvt Ltd	The overall experience al Akira Consulting Pvt. Ltd. was exceptional. PS at Akira was an amazing learning experience for me. I was given opportunities to work on ETL data transaction using specialized tools like Microsoft BI Tools as well as generic programming languages like Python. In the project, we are working on extracting plans data from various operator websites by crawling their websites, cleaning the data and classifying the data into suitable classes based on requirements. We also worked on developing solutions for integration of Customer Master Data between AX, MDS and Centerstone database systems. This project had mainly three tasks namely reviewing primary and shipto AX to MDS integration, to complete MDS to Centerstone integration and to build MDS to Centerstone integration for dropship (SRAD) file. The major skills required were knowledge of SQL, ETL and Python programming language. I had previously programmed in Python so I already had that knowledge while we were given training by the company for SQL and ETL Tools. During my PS I was able to improve my coding skills as well as learn about database systems. I also gained the knowledge of the how industry grade codes are written and deployed. The overall experience was great and I enjoyed most of the work here as well as interacting with the employees of the company. The projects were very interesting and any questions that I had were cleared instantly.	2015-16-sem2

Company	Experience	Year
Akira Consultancy Pvt Ltd	The major learning that I acquired in my 5 and half months of exposure at Akira Consultancy, is bilateral. The first aspect was acquiring the technical skills and the second was of character building. The technical skills learned were mainly SQL which is a special purpose programming language designed for managing data held in a RDBMS (relational database management system) and Python which is an object oriented programming language. Apart from this, the enthusiasm and hard-working attributes I saw in my mentors and his colleagues have left a great impact on me and will help me in my career. The immediate exposure to real life problems in the industry along with responsibility attached with the work that I conducted has left me with a sense of professionalism and taught me office-work ethics. Meeting strict deadlines with a gradual improvement in one's methods is what I have learnt here. The tasks I have worked on were wide ranging. From finding market related data and customer and competitors' data to understanding the process of usability testing and aiding my mentor with data validation tasks, I have covered many elements involved in the building of an app. In my time here, I learned how to work alongside other people and learned the true meaning of teamwork and how important colleagues are in an office space. The way my mentor listened to my doubts and provided me with the right amount of help, not too much but just enough to set me in a path of self discovering the solution has given me a sense of responsibility. I would like to round by saying that working at Akira has left me determined to pursue my future goals. This has been an experience of a life time and has definitely made me a better professional and a better person. My major accomplishments include not any medal or certificate but the trust and confidence that my mentor showed in me while doing the work load. My ability to solve the problems in the way advised and also in the time allotted is definitely an accomplishment for me.	2015-16-sem2

Company	Experience	Year
Akira Consultancy Pvt Ltd	Akira consultancy private limited deals with business intelligence, advanced analytics and enterprise mobility. Pursuing my PS-II at Akira is a major learning experience and it has enhanced my technical knowledge as well. It helped me to know the work culture in startups. As it is a startup I got an opportunity to work on different fields at the same time. The initial training session has expanded our knowledge base and I have developed interest in coding. My project is on marketing research and webscraping. The webscraping is done using python language. I am from a non IT background and haven't learnt python before. The various online tutorial platforms helped me in learning the language. I got an opportunity to learn various programming languages like sql, python and implementing them. I am know confident on web scraping a closely related technique to web crawling and is universal technique adopted by most search engines. Industrial exposure made me explore various career paths and got me acquainted with my interests. It was an opportunity to practically apply things that I have learnt till now. It has changed my thought process from a student to an employee perspective. The PsII experience gave me an opportunity to assess my talent and strength. Based on the assessment I was able to improve myself so as to reach my future goals.	2015-16-sem2
AlmaConnect , Gurgaon		2019-20-sem2
AlmaConnect , Gurgaon	Handled operations and product management and went on to be a part of the growth story of the company. Tool used (Development tools - H/w, S/w) : Used Amplitude, Google Analytics, Metabase dashboards, Freshdesk CRM and advanced Excel. Objectives of the project : Understand the day to day working of the company and craft growth strategy and devise scalable planning. Major Learning Outcomes : Learnt the day to day workings of a startup. Understood activities concerning investor sentiment, effective marketing/advertising campaigns, running operations frameworks and making sense out of user data to convert them into design solutions. Details of Papers/patents : Brief Description of working environment, expectations from the company : Absolutely great working environment. Incredibly Agile. Academic courses relevant to the project : None	2019-20-sem2

Company	Experience	Year
AlmaConnect , Gurgaon	Worked as business deveelopement and operations intern. Managing daily tasks of the company, optimizing them so as to reach the end goal Tool used (Development tools - H/w, S/w) : MS- Excel Objectives of the project : To find a way to build engagement on the platform Major Learning Outcomes : Work of a Business Developement and Operations person	2019-20-sem2
AlmaConnect , Gurgaon	To develop and maintain the AlmaConnect website. The technologies used were Ruby on Rails for backend and AngularJS for front-end. ReactJS for building static websites for static websites. Tool used (Development tools - H/w, S/w) : Sublime Text, Ruby terminal, JIRA Objectives of the project : To develop and maintain the AlmaConnect website. Major Learning Outcomes : Ruby on Rails development, AngularJS development, ruby scripting.	2019-20-sem2
AlmaConnect , Gurgaon	Android and IOS application development using React native framework , I corrected the bugs in the app also including new features on demand from the management, in order to enhance the user experience Tool used (Development tools - H/w, S/w) : React Native, Android Studio, XCode, Jira, Mattermost, JavaScript, C++, Java, Firebase Objectives of the project : Objectives of the project were to increase the overall rating of the apps on both playstore and appStore so that both can come at top on searching Major Learning Outcomes : I previously had developed apps with native android studio in java , with react native I had to learn javaScript which is very different from java, also I had to learn about iOS app development using xCode. Details of Papers/patents : NONE Brief Description of working environment, expectations from the company : Working evn is very great, everyone is very cooperative and understanding, company tries to inculcate good habits within us and timings are flexible but they expect the committed work to be done on time , if we are not able to do it they help us find our mistakes and correct them, overall my exp was great Academic courses relevant to the project : NONE	2019-20-sem2
Altair Engineering India Pvt. Ltd. - Software Division ,	Bangalore	2018-19-sem2

Company	Experience	Year
Altair Engineering India Pvt. Ltd. - Software Division ,	Getting acquainted to HyperWorks and creation of mechanisms using points, bodies, joints, graphics, motion etc. and study of Degree of Freedom. Learning Python and creating a dialog box for running analysis of vehicle events. Adding of events, naming of events etc. Development of Motor Bike tire graphics using MDL after taking parameters as inputs from user. Re-architecturing the existing codebase for full vehicle events to object oriented paradigm. Tool used (Development tools - H/w, S/w) : HyperWorks, Python, MDL Objectives of the project : Major Learning Outcomes : Mechanisms and DOF, Python, MDL Details of Papers/patents : Brief Description of working environment, expectations from the company : Altair's software HyperWorks is fast developing. There are many teams with different work domains. I am in team SDG-II. Team members are very helpful and supportive. Everyone has their own assigned work and there are meetings sometimes to discuss about progress/ address any doubts. The working hours are flexible. Academic courses relevant to the project : Kinematics and Dynamics of Machines, Object Oriented Programming Language	2018-19-sem2
Altisource Business Solutions, Bangalore	Comments: Industries expect students to be adaptive, proactive, quick learners and a professional in deliverable. With respect to technical skills clear understanding and expertise in common technologies like JAVA, J2EE, Database, HTML, few Scripting languages are expected of interns. Student	2016-17-sem2
Altisource Business Solutions, Bangalore	Worked on the android app of the company. Fixed few bugs in the application and also built a couple of POC's for their future use. Tools used (Development tools - H/w, S/w): Android Studio. Objectives of the project: Confidential. Outcomes of the project: Confidential. Major Learning Outcomes: Android app development. Brief Description of working environment, expectations from the company: Laptops provided are not good enough for development purposes. Office culture is not at par with other tech companies. Work pressure is a lot.	2016-17-sem2

Company	Experience	Year
Amazon Development Center , Bangalore	Mentor Name : Arpit Mithal Designation : SDE II & Ad-Optimisation Department comments : Student feedback by mentor-Remarkable persistency showed by the student.Able to finish the work done ahead of time.Very co-operative.Was helping the team members in their CRs. Very eager to learn.Make sure that his work is done by approaching the right people. Name : Roshan Jha Designation : SDE 1 & Platform Development comments : Student was part of coding,testing,Documentation .Exhibited remarkable performance.Very supportive.Pro active.Solved many issues in the already existing code.Was able to scale up with a very less hand holding. Gave the mentor also a chance to learn from the student. Comments: Expectations from industry : Students should be equipped with skills on Artificial Intelligence, Deep Learning, Machine Learning and Data Analytics	2018-19-sem2
Amazon Development Center , Bangalore	1. Generating Business Reports for the new payment method. Worked on various AWS tools and many other internal tools to generate reports. 2. Integrating with API and developing some modules in back end Tool used (Development tools - H/w, S/w) : DynamoDB, RedShift, QuickSight and other internal tools. Objectives of the project : To generate reports that will be used by leadership to measure success and take decisisons. Major Learning Outcomes : AWS tools - DynamoDB, RedShift, QuickSight Languages - Scala, Java Details of Papers/patents : Brief Description of working environment, expectations from the company : Work Environment : Is good. Team mates are friendly and helpful .Enjoyable workplace.Flexible schedule. Expectation : Curious to learn new things, work in a team, Deliver the results Academic courses relevant to the project : Data Warehousing, Object Oriented Analysis and Design	2018-19-sem2

Company	Experience	Year
Amazon Development Center , Bangalore	Org: Payment Services My first task(major project) was to generate Business metrics for Emerging Payments. For this I need to get data from DynamoDB to RedShift Cluster. Created a pipeline for it. After that integrated with QuickSight and published the report. Next task was to do integration with an API to get status of refund for our payment method in Scala. Written unit test and integration test for the same. Apart from them I worked on maintaining RedShift Cluster, configuring alarms, on boarding on various tools to capture click stream data, cleaning up weblabs. Tool used (Development tools - H/w, S/w) : AWS Services - QuickSight, RedShift Cluster, DynamoDB and other internal tools Objectives of the project : Measure success of the project in quantitative terms and business decisions are taken based on it Major Learning Outcomes : Knowing different AWS Service and how to integrate it Integration with API's in Scala Multiple frameworks and internal tools Details of Papers/patents : - Brief Description of working environment, expectations from the company : Teammates are friendly and helpful during entire internship Expectation - Team work , Ownership ,Completing the project Academic courses relevant to the project : Data Warehousing, Object Oriented Analysis and Design	2018-19-sem2
Amazon Development Center , Bangalore	Consolidate information owned by different teams at one place (Elastic-search domain) for search heavy operation and always keep this information in sync with all the input sources to provide the real time data in a single view. Tool used (Development tools - H/w, S/w) : DynamoDB, DynamoDB streams, Lambda, SQS, SES, Elastic-search, VPC Objectives of the project : Real Time Reporting Using Elasticsearch Major Learning Outcomes : Working in Fast paces environment, coding Details of Papers/patents : Brief Description of working environment, expectations from the company : Work environment is friendly, colleagues are supportive. We are encouraged to take initiative and participate, commit and deliver. Academic courses relevant to the project : Cloud computing	2018-19-sem2
Amazon Development Center , Bangalore	Brief write-up on PS-II station : Students were given diverse projects on Machine Learning,Data Mining,NLP ,Alexa enhancements etc.Students should be well versed in Python,should have thorough conceptual knowledge and should have the ability to implement what they have learned.	2019-20-sem2

Company	Experience	Year
Amazon Development Center , Bangalore	Shopping Aids is a guide that helps customers in completing their shopping mission on Amazon. It achieves this by drawing customer's attention to important features in the shopping funnel at appropriate juncture by rendering an informational tool tip about the feature. Additionally Shopping Aids is being leveraged to improve discovery and adoption of new features. There are many front-end and back-end components which are involved between the scheduling of these Shopping Aids and their final impression on the customers' end device (android app, iOS app and mWeb). This makes it difficult to track the progress of a tip to the customer. It happens the many times the tip is scheduled but due to some reason it not being shown to a customer. There was no infrastructure in place that lets us pin point the failure. Hence the problem statement was to provide a mechanism to monitor the progress of tips. Tool used (Development tools - H/w, S/w) : AWS SQS AWS S3 AWS DataPipeline AWS SNS AWS CloudFormation AWS Lambda AWS Athena AWS Glue AWS QuickSight Objectives of the project : Build a system that could track the event cycle of the shopping aid being shown to the customer from the point of page hit to final impression. Major Learning Outcomes : Write clean, maintainable, extensible code. Learnt the AWS stack with CloudFormation. Details of Papers/patents : Brief Description of working environment, expectations from the company : Work environment is not restrictive in the way the there is no compulsory number of working hours as long as the deliverables are being met. The work environment is conducive to learning new technologies and inventing new and better ways to solve problems. Academic courses relevant to the project : DSA OOP Database	2019- 20- sem2

Company	Experience	Year
Amazon Development Center , Bangalore	I was in the Evaluation Platform team who own the platform that does all the risk/fraud evaluation across all of Amazon and its subsidiaries. I worked on two major projects, one which was migrating an old library to a new service and another was on-boarding a new client on the platform. The last task I was given was to write service tests for our system as a part of making the platform more robust. Tool used (Development tools - H/w, S/w) : I was given a Macbook Pro 2017, a 35" widescreen monitor and standard mouse and keyboard. Software tools - IntelliJ Idea IDE, Lombok, Spring Framework, rest all are Amazon internal tools Objectives of the project : Project 1 - Migration of an old library inside our platform into a service solely responsible for hosting that library. Project 2 - On-board a new client on the evaluation platform so that a wide variety of new business use cases can be supported. Project Major Learning Outcomes : Industry standard Java Programming, Integration and Unit testing, Software development cycle, Design Patterns, Spring Framework, Agile Software Development, Official Communication, Working in uber tier teams Details of Papers/patents : Academic courses relevant to the project : Object Oriented Programming, Software Engineering, Operating Systems	2019-20-sem2

Company	Experience	Year
Amazon Development Center , Bangalore	FORTRESS Service is the fraud evaluation platform of CTPS. Its internal operations are broadly categorized into Gather, Model, Ruleset and Action stages. VariableComputationOrchestrationLibrary(VCOL) is being introduced inside FORTRESS to enable onboarding of multiple VCSs and it orchestrates variable computation calls based on the given varCategories "namespace" in TEC Config. We want to put guardrails for the variable changes (added or removed) in varCategories. Tool used (Development tools - H/w, S/w) : Java Spring Framework, Scripting, User Experience Objectives of the project : Implementing Guard Rails for Variables inside Transaction Risk Management System Evaluation Configuration & Improvements in Variable Comparison Tool for Variable Migrations Major Learning Outcomes : During the course of these 5 months, there have been numerous things that I have gained working as an SDE Intern for Amazon like Java Programming, SOLID Principles: These include Single Responsibility, Open-Closed Design, Liskov Substitution, Spring Frame Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : OOP, Database Systems, DSA, Networks, Computer Architecture	2019-20-sem2

Company	Experience	Year
Amazon Development Center , Bangalore	I worked with the Outbound Marketing Automation Team, which provides a common framework for email, push notifications for marketing purposes, to be used by teams across Amazon.The team also owned what content is selected for the consumer, and how to better consumer experience by sending more relevant messages. In message generation pipeline, we previously had purchase filters which removed previously purchased asins(asin is unique identification id for each product) from the messages. These filters removed the exact purchased asins and their standard variations. In this project, we tried to extend this feature by filtering out asins which are found to be similar to previously purchased asins. We defined a model which measure asin similarity based on asin-text description and images.The implementation was achieved by a spark job, written in Scala which will take notification objects as input, compare them with purchase data for each customer for a fixed number of days and then pass the target-asins through text and image model and finally filter the notifications of target asins which are found to be similar. Tool used (Development tools - H/w, S/w) : Apache Spark, AWS resources like EMR, S3, Lambda Objectives of the project : Developing Purchase Halo component which filters notifications from message generation pipeline based on past purchases of customers. Major Learning Outcomes : Big Data manipulation using Spark applications, using AWS resources like S3, EMR, Lambda Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Object Oriented Programming, Database Systems, Machine Learning	2019-20-sem2
Amazon Development Center , Chennai		2018-19-sem2

Company	Experience	Year
Amazon Development Center , Chennai	I got to work on two individual projects: 1. Migrating the logging system for one of their services to ELK Stack (Elasticsearch, Logstash, Kibana). This was basically a design problem which required me to emit and parse application logs in such way that the process is fast, and it gets me a number of attributes which can later be used to perform different kinds of analysis on Kibana. 2. I was required to design and implement an Article Scoring Tool from scratch. This tool would be responsible to rank articles based on factors like user rating, how they render on devices of different resolution, look and feel of the article, etc. This ranking would then be used in article recommendation engines. Tool used (Development tools - H/w, S/w) : AWS Elasticsearch, Logstash, Java Spring Objectives of the project : Log Analysis, Article Scoring Major Learning Outcomes : Software design, Coding practices Details of Papers/patents : Brief Description of working environment, expectations from the company : Flexible working hours, Great work from home policies, Chilled out working enviornment, These people love coding so they don't have any work-life balance (RIP 😛) Academic courses relevant to the project : Software Architecture, Software Testing, Object Oriented Analysis and Design, Data Mining	2018-19-sem2
Amazon Development Center , Hyderabad		2018-19-sem2
Amazon Development Center , Hyderabad	Added Repair Details Functionality to Amazon Internal Tool named Voyager. Enhanced Promotion Scenario in BCM which is again Amazon Internal Tool. Added Change Review Feature to BCM. Tool used (Development tools - H/w, S/w) : Intellij IDE, Java-8, Hibernate, AUI CSS and JS, Spring Framework, Angular MVC Objectives of the project : Adding new Features which are requested from Internal Customers Major Learning Outcomes : Learnt Design Principles, HLD and LLD, Frameworks like Spring MVC, Hibernate and Angular MVC. Details of Papers/patents : None Brief Description of working environment, expectations from the company : Working Environment is friendly, it might seem daunting at first but people are humble enough to help you with doubts and clarifications. Can learn a lot as Amazon is vast and different teams use different tools and frameworks. Academic courses relevant to the project : Java, OOPS and Software Engineering.	2018-19-sem2

Company	Experience	Year
Amazon Development Center , Hyderabad	Develop the Returns Center Landing PageHome page in PREXWebApp stack, and to migrate the traffic from ORS stack. Gurupa stack to Horizonte stack. ORS was based on legacy Gurupa technology, while PREXWebApp is based on Horizonte. The page is the final piece of the Returns-related webpages on Amazon website that is not vended by PREXWebApp. The projects aim is to support all Customer Returns Experience through PREXWebApp. Also, since the Gurupa page was developed many years ago, we have planned to add several new features to the page for providing a seamless returns experience. Tool used (Development tools - H/w, S/w) : Java, Scala, JSP, JQuerry Objectives of the project : Developing a new page for Amazon Returns Major Learning Outcomes : Spring framework Programming languages like Scala, JSP, JQuerry. Unit testing using Junit, Mockito. Better problem-solving abilities. Working in a team and taking part in discussions to come up with the most optimal solution. Writing cleaner and more readable code. Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : People are very helpful and friendly, my experience at amazon made me a better software engineer due to the coding standards followed in the organization. Academic courses relevant to the project : N/A	2018-19-sem2
Amazon Development Center , Hyderabad	My main task was to develop an feature for an internal portal. Tool used (Development tools - H/w, S/w) : Java Spring, Guice framework, React Native framework. Objectives of the project : To on-board Amazon Advertising to the Amazon Touchstone portal as a client. Major Learning Outcomes : Got to system design along with java based development in service oriented architecture. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Object Oriented design patterns, Java,	2018-19-sem2

Company	Experience	Year
Amazon Development Center , Hyderabad	Worked on User contact management in the withholding tax team where i got to work on different AWS services.Worked on Design and Development of Contact Management components Tool used (Development tools - H/w, S/w) : AWS step function, simple queue service, simple notification service, AWS secrets manager, AWS lambda Objectives of the project : User Contact Management Major Learning Outcomes : Ability to deal with Ambiguity. Work independently, Work on varied set of tools and applications, building scalable and secure application. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Working environment was very good and my teammates were very helpful. There is a lot of flexibility here at Amazon such as your work timings, choice of language etc. Also while working here, one will get ample opportunities to work on different AWS services. Academic courses relevant to the project : NA	2018-19-sem2
Amazon Development Center , Hyderabad		2019-20-sem2
Amazon Development Center , Hyderabad	Making of a request editor tool which will help in making testing easier for those API's which require a similar kind of input. Accessibility of a webpage was also a project that i completed Tool used (Development tools - H/w, S/w) : Scala, java, jsp, js, aws Objectives of the project : Making Testing easier Major Learning Outcomes : Scala, java, jsp, js, aws Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Object oriented programming and Database	2019-20-sem2

Company	Experience	Year
Amazon Development Center , Hyderabad	Frontend changes in the UI.Integration of service with a third-party tool for logs.Made 2 APIs and a Spring controller for the final project. Tests were written for all classes written. Tool used (Development tools - H/w, S/w) : AWS services,Java,python,spring,google guice. Objectives of the project : Mimic service flow to provide non production service API. Major Learning Outcomes : Spring,dependency injection and testing. Details of Papers/patents : Only High level and low level design wiki's . Brief Description of working environment, expectations from the company : Great chance to learn a lot. Great chances of PPO if work is done with complete dedication and without any other commitments.. literally any other.Slightly hectic for the intern but not really for full-timers. Good company to work for . Growth is quick compared to other companies. Foreign opportunities open up after about 3 years within. Academic courses relevant to the project : OOP(most imp(JAVA)),DSA,DBMS,DAA for SDE profile.	2019-20-sem2
Amazon Development Center , Hyderabad	Work was to write restful API to support the backend of the Policy Management System Team. Other than, it involved write code for client to Onboard them to use our product. Project also involved doing load testing to understand the limiting factor for the service and test the performace of the system under stressful conditions. Tool used (Development tools - H/w, S/w) : JAX-RS Framework Tps Generator DynamoDB Mockito Junit EC2 with Fargate (on aws) API Gateway VPC Objectives of the project : Writing restful api, performance testing and onboarding of client to use Policy Management System Major Learning Outcomes : Experience in Java, Python , Many services of Aws, importance of stress handling. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : OBJECT ORIENTED PROGRAMMING, COMPUTER NETWORKS, OPERATING SYSTEM, DBMS, SOFTWARE ENGINEERING	2019-20-sem2
Amazon Development Center , New Delhi		2018-19-sem2

Company	Experience	Year
Amazon Development Center , New Delhi	Task was to develop APIs to allow custom workflows on invoice processing by subjecting them to approvals. This would speed up the processing of invoices and help the company to reduce the time to pay for the invoices. APIs were developed to scale automatically by using asynchronous processing by implementing them in tandem with SQS consumers. Tool used (Development tools - H/w, S/w) SQS,SNS,DynamoDB, S3, Lambda etc , AngularJS : Java, Ruby, AWS tools like Objectives of the project : Automate manual processing of invoices through Approval Workflows Major Learning Outcomes : Microservices Architecture, Dependency Injection, Amazon Web Services Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Working environment is good and interns are treated at par with the employees. Organisational structure is pretty flat and everyone is approachable. New ideas are encouraged and throughly discussed. One can learn a lot during the internship about professional life in general. Academic courses relevant to the project : Object Oriented Programming, DBMS	2018-19-sem2
Amazon Development Center , New Delhi	I worked on an alarming system for threat cases. I built the system from scratch which is hardly given to interns.This task entailed sending two sets of notifications which will inform the SVOT team of the case recently transferred to them. The first one to be sent as soon as the case was transferred and the second one to act as a gentle reminder to the team to respond to the case within a period of 4 hours. Tool used (Development tools - H/w, S/w) : Java , Spring framework , AWS Objectives of the project : To create a case management system and a landing page Major Learning Outcomes : How the corporate culture works. Learning about Amazon code production architecture. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : The working environment is quite professional. I had a bunch of pretty enthusiastic, full of zeal, and really helpful peers. The best thing I liked about Amazon is the no boundary attached policy. That means, I was free to work on any aspect of any program. If I had some ideas, my opinions were well discussed and thought upon. The agility and the rather active work environment is something Amazon is known for. I worked with some of the cutting edge technologies. Academic courses relevant to the project : Object Oriented Programming	2018-19-sem2

Company	Experience	Year
Amazon Development Center , New Delhi	CRejects V5 ML model aimed to reduce reseller abuse by supressing COD of suspecious customer before the purchase. Generic ML transformer- A generic transformer for converting various file formats to rodb format. Tool used (Development tools - H/w, S/w) : Python, ML, mockito, junit, git Objectives of the project : CRejects V5 ML model aimed to reduce reseller abuse by supressing COD of suspecious customer before the purchase. Major Learning Outcomes : Learnt overall business model of Amazon. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Nice working environment. Academic courses relevant to the project : ML	2018-19-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	This past semester at Amazon Development Centre has been one semester in BITS where I have actually learnt to apply my knowledge on such a large scale and affect lives of millions of people even though in a negligible and almost invisible manner. The Motto at Amazon.in traffic team is to work and have fun, and that is exactly how I would describe my past semester. There were days when I had to work late into the night to remove small bugs from the code which just refused to come to attention, to ensure that the project was delivered on the required date, while there were others when me along with my team left office early at 2:00pm to do fun activities such as Go-Karting, and play laser tag. The Semester was one full of learning and change. The Semester started with me joining the jungle team, however because of lack of projects, I was moved to the Amazon.in Traffic team which tries to get as much as possible traffic to amazon through various projects it implements. I was given 2 projects based on SEO which is search engine optimization which is done to ensure that your website performs as well as possible on search engines so that it gets the highest possible ranking. Along with these I was also given a third project as the need arose to carry out cleaning of data through an automated tool as to avoid false results in statistical analysis. Doing these projects was not a breeze as there were days when I really had to work very hard, there were also days when I realized that the path that I was considering for a certain problem was futile and had to start the entire thing all over again. However, with hard work and perseverance, as well as guidance from my mentor, I was able to achieve my goal, which proved to be fruitful for the company as well as for me as it lead to me becoming a better programmer. Amazon.in is a great place to work if you want to develop yourself and want to learn how to manage your time well, Since the Deadlines which at a point may sound steep can be achieved with dedication. I have really enjoyed my time at amazon and have learnt skills as well as made memories for life.	2015-16-sem2
Amazon Development Center, Bangalore	I have interned and worked at Amazon, Bangalore for over 11 months now. I believe that it is truly an excellent place for both technical and career growth. The long nature of my internship spanning over two semesters meant that my team came to trust me on tasks of rapidly increasing complexity. I have had the unique opportunity to dabble in many different technologies such as the Scala programming language, Reactive Programming with Akka, Apache Spark, Apache	2015-16-sem2

Company	Experience	Year
	Kafka, Apache Zookeeper, Hadoop, AWS Services such as DynamoDB, SNS, SQS, EC2 and RDS amongst others. I have been assigned and been a part of both exploratory as well as well-defined problems as projects during my internship. My very first project involved exploring the possibilities of creating a Mobile-App Crawler, as well as the possibility of creating a Honeypot to help capture advertising-exploiting bots. These were projects of exploratory nature wherein the major problem was to discover the problem in itself. Later on, owing to my work on the AppCrawler, I was assigned the task of designing a Crawl Management Service that would offer an Infrastructure as a Service (IaaS) by creating a service to run ad-hoc crawl jobs and crawl web-pages. After completion of this project over 6 months, my next project was involved in creating wrapper/container libraries for allowing deployment of algorithms as Spark Jobs. This library was to help deploy processing algorithms working on the crawled data. This time period over the long period has definitely prepared me for a future in software engineering. One major aspect I benefitted from was the concept within Amazon of two-pizza teams, a concept wherein each sub-team must be of a size that can be fed with two large pizzas. I believe this allows for an extremely dynamic team that can have a close understanding of each other's work and a better sense of accomplishment as well as ownership in the product being built. It taught me to think about all the consumers of code I've written and the need for extensibility. In my process of learning, I found my peers' advice invaluable, especially those from my mentor. I believe the mentorship/buddy program at Amazon allows a strong foundation in allowing peers learn from each other. I learned to focus my problems and solve the problem at hand one step at a time in a swift but organized way. This gave me the confidence that will in the future empower me to tackle any problem at hand. However, it was not all work and no play as during my stay at Amazon, we participated in a teamwide hackathon that my 4-person team won. I find that I've learnt to enjoy my work and I believe this is an invaluable quality going forward in any aspect of my life. Just as the popular Amazon motto, I've now reached a stage where I can "Work Hard, Have Fun & Make History".	

Company	Experience	Year
Amazon Development Center, Bangalore	It is very hard to describe the internship experience at Amazon in a few words. The journey has been splendid and quite memorable for me. There was not even a single day which did not entail any learning aspect. The learnings at Amazon were not only restricted to the core domain but also comprised management, team work and leadership principles. As for my case, I can say I got a whole learning package in Amazon. The internship program offers a comfortable time for the candidate to adjust and learn the functioning of the team before heading off with the project work which enhances the quality of the work. It is always good to know the team functioning so that you can realize the exact requirement of your project. 5-6 months internship period offers this flexibility. The work culture in Amazon is unique. "Work hard. Have fun. Make history" as they say, was truly blended in my experience at Amazon. The team mates and the manager were supportive specifically at those times when they thought I needed their support. "If you want to learn swimming, you have to go in deep waters", that's exactly the principle my team followed. I learned how to deep dive in any issue before an actual support is required. In this process, I carved out a better of myself. Overall I can say there has been a tremendous positive change in the 11 th January 2016 Karan and present day Karan. Thanks to BITS Pilani, Prof. Viswanathan Hariharan and my team colleagues.	2015-16-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	I have been allotted Amazon Development Center, Bangalore as my PS II station. For me it was a unique experience to be here. My project involved finding the analytics of a website. The usage patterns and the application behavior of all the clients determine the popularity of website. This analysis might provide root cause of the problem if there is any disappointment in end-user experience and improve the product quality. I had to onboard with the existing tools to achieve the same. These tools were maintained by Seattle teams and to discuss any issue with them was problematic given the time difference. Project was quite delayed due to these external dependencies. As such I was given another task to utilize my bandwidth. It was a simple task of adding feature to existing website using MVC framework. I have learnt to write 'good code'. The best part is, being in the part of working in a 'code quality matters' team will infuse the way one thinks. The exposure to state of the art tools in the online retail business is worth doing. One can also get to know what type of internal communication is followed. Apart from these, there are frequent hackathons, learning sessions and broadcast videos giving you plethora of choices to gain knowledge from. I never felt like an intern who was restricted to do things, rather I got all the opportunity to know about various projects and the flow of things in industry. There is never an end to fun either. It depends on the team actually. I was lucky enough to have team who never ceased the chance to roam around, be it movies, treks or IPL matches. Apart from these, the abundant amount of talent the people here have is amazing. If you want to be best, you have to surround yourself with best. That said, Amazon will be the right choice for people who crave for growth along with perfection.	2015-16-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	I had a great learning experience, working at Amazon Development Centre, Bangalore. I didn't just get exposure to the new technologies, but also to professional work culture. At Amazon, interns are provided full-fledged ownership of the projects. It brings a lot of responsibility on interns hand and hence, gives a great learning experience, technical as well as on leadership point of view. My Major project, here, was on Interface development, which involved frontend and backend development. For this project, the requirements were not clear at first, so, we had a lot of meeting with the business team to get clarification on their business process. This helped me improve my communication skills. Since, front end development, was not a part of my course work, it gave me opportunity to learn and create a lot of features using javascript, JQuery. I also explored AJAX as a part of my project. Along with front end, I worked on the backend development of this service also. I got to work on different databases that are there at Amazon and learned about new frameworks to connect to different databases like Mybatis, hibernate etc. I also applied database query optimization techniques. Overall, this project gave me exposure to a lot of computer science fundamentals. Along with this, I did some minor projects as a part of my intern. In these projects, I got an opportunity to apply different computer science concepts like read-write concurrency, data structure optimization etc. I also learned Amazon Coral Service development. These projects also gave me exposure to REST APIs. Apart from all the technical aspects, this internship taught me a lot about work life balance, teamwork. This was my first exposure to industrial sector and my team made it very easy for me. Continuous guidance from my mentor and manager helped me better manage my time and improve my skill set, not only technically but also from leadership point of view. The discussions I had with the business people helped me learn to look at the bigger picture of things. Overall, I feel PS2 at Amazon was a great period for self-development and will definitely recommend juniors to give Amazon top priority, while filling PS form.	2015-16-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	I was part of one of the teams of Seller Services of Amazon. Our Project is a new one and I have also joined in initial phase of development. The aim of the project is to help sellers to discover service provider and to manage their product servicing needs and help in day-to-day operations. I was given different tasks according to the requirements. I have been using JAVA, JAVASCRIPT Programming languages to develop the features. I have worked on a number of tasks in entire five months. Each task is a new learning, a new challenge. I worked on Junit tests. This have given me an opportunity to understand the importance of testing and during the process of implementation realized the possible test cases. So this made me more careful while writing code. And also Most of my tasks were associated to Spring Framework. This has given me the clear understanding of it. I have learned the standards of programming, best practices to use, experience in the latest technologies. Apart from technical knowledge, I have also realized how working in industry is different from academic projects. In industry there is a lot of emphasis on correcting the corner cases associated with a given program. The programs are also reviewed by various people to reduce possibility of bugs. Moreover, even while writing a program, a lot of emphasis is laid on making it easy to read, understand and manage. No program is made into production until it is accepted by 2-3 people of same or different team. The feedback from them has helped us in developing new skills as well as refining other skills. Along with my contribution to the team, I had an opportunity to interact with the other teams. In Amazon they are number of resources to gain knowledge. They have internal Wikipedia from where we can understand the internal software's, a platform for technical queries, talk are conducted by employees about their product or any new technologies, team meetings to put forward our opinions or ideas and many more. I have gained hands-on experience and have better prepared for the future. For a fresher, it's a great place to start as there is lot of scope for learning. I believe this will help us in smoother transition from academics.	2015-16-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	I am part of Junglee Expansion Int/India Team, Junglee is separate subsidiary of Amazon with the vision of helping anyone buy and sell anything online. Junglee is the only online marketplace in India which enables customers to buy new and used products from all types of sellers including individuals, home- entrepreneurs and micro-businesses. As a part of Buyer experience team our goals is to increase the buyer experience over Junglee.com. Internship at Amazon (Junglee) has been a lot of learning, tremendous exposure. I appreciate the opportunities and projects that were assigned to me, since the projects I have done had huge Business Impact for Junglee. Also, I am happy with the fact that I got to work on something that touched the end customers directly and gave them a more immersive shopping experience with Junglee by giving them relevant trust block messages and seller reviews. The project I have undertaken are based on buyer experience only such as displaying seller reviews on mobile (New Launch), Displaying Dynamic Trust messages based on category. Suppressing Make an Offer Button This PS experienced is great for me because whatever I have learnt in college days I have applied it practically.	2015-16-sem2
Amazon Development Center, Bangalore	I did my PS-II at Amazon Development Centre, Bangalore. My team mainly worked on developing website features for the Softlines Categories for the Indian Marketplace. During the term of PS-II, I worked on 2 projects. The first one was based on Web-analytics and involved understanding the impact of feature changes on customers. I got to work on several Amazon-specific web-analytics tools. The work also involved bash and python programming. My second project was based on customization of a website feature to cater to Indian customers. The work required an understanding of the data warehouse, distributed job scheduling and elastic map reduce and most importantly what the customer needs. PS-II was a great experience, both in the professional and personal frontiers. My Manager and my team were very supportive. Several team level knowledge sharing talks were organized, and I was encouraged to present about Amazon-specific web-analytics tools in one such talk. My team believes in the concept of working hard and having fun as well, which made the atmosphere even better. Overall, PS-II was an amazing experience.	2015-16-sem2
Amazon Development Center, Bangalore	I have had a great experience in Amazon so far. Being in one of the top technology companies has its own advantages – I got to work on upcoming products that would be used by	2015-16-sem2

Company	Experience	Year
	millions of customers and I was a small part of the Amazon India growth story. The people I met here are immensely talented and I learnt a great deal by just talking to them. The kind of faith that was shown towards me was a bit of a surprise for me (as well as a huge responsibility in itself) - right from day one, I was allowed to work on production systems that are used by millions of customers. During my internship, I also got to experience first-hand the kind of customer obsession that each and every person working here shows and it gave me a perspective of how great companies are built. I also got a chance to work on various technologies and was given the opportunity to completely own components. As an intern, I had access to all the internal tools and technologies and I learnt a lot from going through various internal wikis and watching numerous internal talks from senior developers and executives. The project I mainly worked on was 'Building an internal tool'. This project aims to enable team members to speedily resolve issues by making common tasks easy to do and thereby saving time. In general, we need to use various internal services to query different databases and perform multiple tasks. This tool would consolidate it to one internal portal which the team members can use instead of having to deal with multiple services. I also worked on 'UCI Migration for India Gift Cards' whose primary objective is to improve the security around the uniquely identifying data of a customer that is involved while creating Gift Cards on Amazon systems. Apart from these, I also worked on various tasks for upcoming products which I can't mention in detail. The primary skill that I acquired was to write better code. I also got an opportunity to use various internal services and got an idea of how large scale systems are designed. I learnt about the complete process of getting requirements for a new feature to deploying it for use in production systems. PS II has been a great learning experience for me and it has been true to its goal of helping a student transition from college to industry. I got to know a lot about my industry, met a lot of amazing people, worked with some of the best minds of the country and developed skills that would greatly help me in the career that I am about to embark on. I am also thankful for the wisdom shared by my PS instructor from time to time both in terms of sharing his experience and through various articles that he was kind enough to share.	

Company	Experience	Year
Amazon Development Center, Bangalore	The overall experience at Amazon Development Center, Bangalore was great and this is what one should expect from any software company. Amazon has very good work culture and flexible working hours make us to do productive work. We can do work from home. You can come and leave at any time. They are giving free cab facilities to all interns. Amazon is known for their hiring process and I realized it when I worked with my team members. I learnt a lot from my team members by interacting with them while I have faced problems. Amazon has great principle engineers and they are giving video lectures and you can learn from those video lectures to get extra knowledge. I was working with Spring Web MVC, DynamoDB, ReactJS and Free marker template. I was working in live project that is one of best thing of Amazon. Interns are working as full time employee. My project was to create Cloud Synchronization services. We can access our account in website and we can also access same account in Android application and iOS application also and in each device user should be able to see consistent data. I created complete authentication layer of this project. I also created front end pages in which I have used ReactJS and Free marker template. I also participated in Hackathon. During Hackathon we created one website related to seller support. We created website using Ruby on Rails. Hackathon event was a great learning experience in short span. This PS experienced is great for me because whatever I have learnt in college days I have applied it practically.	2015-16-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	I did my PS internship at Amazon in Bangalore. I was lucky to get my first preference. From my seniors and single degree batch-mates, I had learnt that Amazon is a very good place to be if you're looking to learn industry standard software development. Now, having completed the internship here, I can confirm those claims. I was part of a team called EasyShip which is a seller facing service offered by Amazon.in. The team works on providing a service that allows sellers on Amazon.in to ship the goods they sell on Amazon to their customers. It has been a great learning experience with the team. As far as the specific work that one might get here at Amazon is concerned, it varies a lot across teams. I was fortunate (we don't get a choice or preference of team, but most teams have decent work) to have been allotted a very young and active team that was working on some very high priority and important projects when I joined. I started with the development of a script that our business team needed and after that I was allotted the development of APIs in a web-service that generated compliance forms for goods being moved across states in India. During my project, I got to work with senior SDEs in our team as well as the Seattle team. I was also very impressed by the work culture at Amazon. Employees actually live the famous 14 leadership principles of Amazon. My manager and team mates were always helpful. One small suggestion I can offer to future Amazon interns is that taking initiative here matters a lot. You might not have work for several days here and the days might turn into weeks, unless you bug your manager and ask him for work. Amazon has a very well defined intern to full time employee conversion process and every intern gets a fair chance to become a full time employee. So, getting some quality work under your belt before your internship ends greatly helps in the conversion. Amazon possesses an unimaginable number of highly sophisticated software tools. Getting a chance to work and play around with them is an opportunity one should not miss. To sum up, Amazon is an amazing place to begin your career and I would highly recommend it to all BITsians. I hope this helps.	2015-16-sem2
Amazon Development Center, Bangalore	As part of my Practice School 2, I interned with Amazon in Bangalore. I arrived in Bangalore a week before the internship date to start looking for accommodation near the office and found a PG at Sanjaynagar which was around 6 kilometers from my office. The atmosphere at office is the most attractive part here. No hierarchy system. We had to call	2015-16-sem2

Company	Experience	Year

even a senior of about 20 years by his name. Initially I found it uncomfortable as everyone was elder to me. But then I understood the importance of it. It helps an individual to have selfconfidence that no one is bigger or smaller are. You can reach the same position soon. One thing which catches your attention is the amazing office architecture. Every floor had its own theme with marvelous conference rooms, delightful common areas and comfortable seating. Every small thing has been taken care of with utmost attention, from the placement of reprographics to the arrangement of the desks. The first day was a little overwhelming with a lot of people trying to befriend me and asking questions to which I repeated my bio-data like the first day of college. As a fledgling intern my greatest endeavor was to lean the tools and technologies being used at Amazon. As I had no prior experience, I faced little problems in coming out of that college world and understanding how really such a big company runs. My mentor, manager and team members' brain stormed on my project. I was usually part of all the discussions and I also contributed as per my knowledge of understanding. I was assigned India's one of the highest priority projects. I found that I had a great responsibility on my head as I cannot leave until this project is done and I had to deliver it on time. After two months, there were some additional requirements which required design changes. So it kind of hampered my work. Also my mentor switched after two months to another team. After that I had to take all the design decisions, initiate meetings for my project, take reviews from cross-team and do the required coding. Though all this proved to be very helpful, it caught up my time in which I could have coded more and delivered more. I also learnt new technologies and gave seminars on that to my team. I deep-dived into few issues which our team was facing and found a solution to it, saving time of all. I was able to complete my project with the help of my team members. Looking back, I feel it was a right decision to choose Amazon, Bangalore as the PS2 destination. I had always been out of home for studies. This one adds a new and great experience to that. I learnt a lot about work. My fellow interns were friendly, my team was affable and my manager was empathetic. Our team shifted to Bagmane which is about 21 km from my place. So commuting on weekdays was an issue in Bangalore while weekends were amazing with my friends & colleagues. I am interested in working at Bangalore so I applied for a PPO. My journey with Amazon has been an

Company	Experience	Year
	amazing experience and it would be a fond memory for the rest of my life.	
Amazon Development Center, Bangalore	My experience at Amazon over the course of the PS-2 has been terrific. The last 5 months have given me great insights into the corporate world with respect to its needs in terms of both technical proficiency as well as character. My work here was with a team called 'Associates Fraud' which primarily works at maintaining the integrity of the Associates (affiliate) program at Amazon. The fraud landscape is a continuously changing one and hence you will get to work on real-life problems which have an immediate dollar impact to the company. You will be required to foresee, manage and solve problems which require you to bring in skills related to a wide range of specializations including but not limited to data science, distributed systems and core software development. The single most visible change which I encountered working here was the scale at which the company operates. And as an intern, each and every piece of code you write must take that into consideration. This guarantees that you will be producing industry standard code which by itself should be a great takeaway from any internship. The projects given here would be end-to-end. You are expected to design, code, test, deploy and then even manage your service or application. The learning curve will be steep but very interesting, especially the design phase where you'll get to review and try some of the latest technologies in the industry. Here is where you actually move beyond what was part of your academics in college. Also it's worth mentioning that you'll have unfettered access to all services produced by Amazon including AWS which works on cutting-edge technology is a standard-bearer in the industry. The team members and mentors will always be ready to help and guide you in whatever way possible. There is also a lot which can be learned from senior members in your team not only with respect to technical aspects but also their work-ethic and diligence. You will be encouraged to share your views and comments on the other projects of the team. The management, at all levels will try to make sure that your internship proceeds smoothly. During the course of the internship, I worked on a single project which aimed remodeling of an automated fraud detection service. This included a complete overhaul of the existing architecture and writing the entire service ground-up. As a part of this I had the opportunity to work on many new technologies like	2015-16-sem2

Company	Experience	Year
	Elastic MapReduce, Hive, DynamoDB, graph databases, Lambda functions and many other AWS services. Overall, the internship was a tremendous learning experience and I feel that it has been of great help in preparing me for even greater challenges and responsibilities in my career.	
Amazon Development Center, Bangalore	My internship with Amazon Development Center, Bangalore was nothing short of exciting. As soon as the PS-2 station was confirmed, Amazon contacted me for travel and accommodation bookings. I came to Bangalore a day before the internship and checked into a comfortable Hotel arranged by Amazon as part of the offer. The first day was great, I got to know many other new joinees and was amazed to find out that a few of them had given up to7 interviews to get the internship. I was greeted by my Manager soon after the orientation session, who also joined the same day as me. I was told that I would be working for A9.com, an Amazon subsidiary which works on Search, Optimization, Machine Learning and Advertising Algorithms. The first few weeks were spent in learning Amazon specific tools through a course called "SDE Boot Camp" where they teach new joinees about how to write code specific to Amazon systems. Later, after a few weeks of discussion I was assigned my project and was told to create a requirements document. After this, there were prolonged discussions about the architecture of the project and it was only after the first two months that I started to work on the code. It took me around 2.5 months to finish the first cut of the project after which I had a preliminary demo where I was advised many changes and feature additions. Since the architecture of the project was so well-thought these additions and changes were a cakewalk. My manager really helped me in all aspects of the internship from the code to getting help from peers to finding a good doctor in Bangalore when I wasn't well. The key learning from my internship was that 'coding' is a very very small part of the whole software development ball game. A well architecture solution can be 'coded' within a few weeks and would prove to be very useful in the future, however if a solution doesn't have good requirements and design it would turn into a mess very soon. Apart from the design I also got an exposure of what 'Big Data' actually is and how teams try to find relevant information in Terabytes of data. My internship with Amazon was a great exposure and I would always cherish the memories I made in Bangalore.	2015-16-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	My PS station is Amazon Development Centre, Bangalore. I have been working here as a part of JungleeTech team. Past five months have been an amazing learning opportunity for me. I was introduced to various programming concepts and was provided with a platform to implement those concepts. I got to work on many exciting projects, most of the time was spent on latency reduction for MYI Listings Page. For the implementation of the project, I had to learn various new stuff like Dozer Mapping, Akka Actors, Design Patterns, Coral framework, Orchestration framework. Apart from this project which helped me improve my coding skills, there were some other tasks which helped me become more familiar with the various services used inside my team. I also got to work on projects which involved communicating with various teams and helped me understand the entire life-cycle of an order placed on Junglee. Apart from learning various software related concepts, I have also realized how working in industry is different from academic projects. In industry there is a lot of emphasis on correcting the corner cases associated with a given program. Also, the programs are subjected to large number of tests so as to make them as bugproof and future-proof as possible. The programs are also reviewed by various people to reduce possibility of bugs. Moreover, even while writing a program, a lot of emphasis is laid on making it easy to read, understand and manage. These kinds of programming practices are very typical to industry. Practice School experience has also helped us become familiar with the required professional attitude and the working environment of companies. We also got an opportunity to interact with and learn from many professionals who already have a lot of experience of working in industry. The constructive feedback from them has helped us in developing new skills as well as refining other skills. Hence Practice school has provided us ample opportunity to implement the techniques learnt in classroom as well as learn new concepts. I sincerely believe that due to this hands-on experience we are now better prepared for the future and experienced gained here will help in smoother transition from academics	2015-16-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	I had the opportunity to be a part of Amazon India during my Practice School-II at Bangalore. It was a great learning curve for me. Being in the professional world changes your outlook in every way. It was a privilege working for the India Payments team, the same team responsible for making the life of customers so easy through their biggest successful product launch in the form of Amazon India Gift Cards. Amazon gave us enough time and training initially to settle down and get accustomed to their style of working and allowed us to blend with their work culture steadily. The best thing about the company is that interns and fulltimes are considered at par. Therefore, interns here get enough exposure and responsibility at work. Amazon strictly follows the policy of ownership, which means that the one who is assigned a project, has to take complete responsibility and ownership of that product till completion. This instills enthusiasm and confidence in us. It was an excellent experience working with my manager, who has been at Amazon for more than five years, and is so knowledgeable and experienced at managing and getting things done from the Software developers. I was lucky to be a part of a team where my fellow colleagues were always there to help and clear any doubts. I was assigned very motivating and helpful mentors too, during the course of my project work. I was assigned a very interesting project where I had to design and implement a platform for deep health checks for Amazon internal services. The experience was really a steep learning curve for me where I had to think beyond the box and come up with possible solutions to the problem. The solutions are reviewed by senior developers and finally one solution is selected for implementation. The coding work for me was mostly in Java, with concepts like multithreading and spring framework coming into the picture. All in all it was a truly gratifying experience and I would like to recommend my juniors to keep Amazon at the top of their priority list when their turn comes for Practice School-2. Amazon will be the leading mobile retailer delivering customers the best overall experience by providing insightful information to improve better device buying decision making, the biggest selection of carrier plans and options available, the most competitive prices in the market, and the best shopping experience in the industry.	2015-16-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	I am fortunate enough to get to work as an intern in Amazon Development Center, Bangalore. I would like to categorize my experience of working here into two aspects. First one is the technical aspect in which I got to learn lot of new things when it comes to programming which would have never been possible in academics because we tend to ignore those things and focus on just writing code. Few examples include how to write code which is testable, how to refactor code so that it improves readability and maintainability and so on. Java was used and I got to learn several new concepts in Java. Some of the things include Java 8 streams and using Mockito library to test our codes etc. The second aspect is about team building and collaboration. I was fortunate enough to be part of an awesome team which always welcomes a fresher with encouragement. I got to learn lot of technical aspects from my team and also most importantly time management and prioritizing skills. My project aims to classify Amazon ads on social networking sites like Facebook and Twitter as good or bad and based on this outcome, remove the bad ads that are not performing well. This is done by looking at the emotions expressed by users on those social networking sites by means of comments, likes, shares etc. The Marketing Managers can then take a decision whether to pull down or retain such ads. In addition to learning various software related concepts, I have also realized how working in software industry is different from working for academic projects. In industry, lot of emphasis is laid on writing testable and bug free code taking into account all the corner cases associated with a given code. Also, the codes are subjected to large number of stress tests so as to make them bug-proof and future-proof as possible. There is a proper code review system in place in which people review our codes to reduce the possibility of bugs. The PS-2 experience has helped me become familiar with the working environment of software industry. I also got an opportunity to interact with and learn from my teammates who already have lot of experience in software industry. The constructive feedback from them has helped me in developing new skills as well as refining my existing skills. Hence PS2- is a very good platform for students like me to hone my skills and also incorporate the learnings from the classroom in workplace. I believe that due to this hands-on experience I am now better prepared for the future and experience gained here will help in smoother transition from academics to software industry.	2015-16-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	PS2 experience has been terrific for me. It gave me an early lap to closely observe the industry. Learning at Amazon was just exactly what I wanted to gain from my experience of PS2. It gave me a must clearer picture of what I thought to do and what I will be doing. Amazon is one of the companies where you will always have work to do. The engineering skills you learn here are amazing. The complete system of how one to development in Amazon was completely new to me and took me time to grab all pieces together but once learned, the process of developing to deployment seems so easy that a lot amount of pain is taken care of by the tools and one just has to do a few clicks. Also exploring how these tools works, some good engineering can be explored. Though in Amazon, one works more than what is expected in an internship, but its fun to work here in Amazon. The office life in Amazon is fabulous. The peers around are so helpful and enjoying that after a week or so one does not even feel like intern and becomes a close part of the team. Some of the fun highlights are Pizza parties every second week, team outings every quarter, lunch or dinner parties occur to happen at least once a month and much more. There is no pressure exerted by the Manager or mentor to do work. The driving force to do work is the tag of ownership. The developer in Amazon gets the ownership of the project which suppress all layers of hierarchy and one feels so closely associated with the project that it's no longer a company project but one of your own. One thing which is very common is MNCs is the big picture is nowhere known to the developer, what he is programming for and how is it going to affect market and business. But in Amazon, such picture is very clear due to many reasons including the policy of eager development and deployment. Usually one see the projects going to production in very small time. The overall experience at Amazon has been fabulous and learnt a lot over the complete intern. Amazon gave me a great start while entering the industry and hoping this experience will act as a great boost in future.	2015-16-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	PS-2 was bit challenging and interesting. I got to learn lot of things including the domain knowledge of my team. I got to learn new technologies and industrial standard practices in developing a software. Practical knowledge in current technologies like no-sql databases, Spring MVC, writing unit test cases are gained. Expiration Date Audit is a project consisting of applications for auditing the expiration date printed on the label of the items and the ones stored in database in Fresh Fulfillment Centres. The project consists of a web application that will help FC associates in managing the audit process and to view the audit history reports. Also, it consists of a hand scanner tool that helps the FC associates in auditing. Project required strong java skills with additional frameworks such as Spring, MVC etc. I was able to acquire these skills by looking at the existing project code base and small tasks given during initial days of my internship helped me in gaining those skills. Additionally, writing queries for no-sql database, writing test cases were also challenging. Our team was a relatively new team. So there was a kind of start-up culture in the team, which helped me to explore and learn a lot.	2015-16-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	My internship in Amazon for the past 5 months mainly evolved around working on web development which included making changes to the amazon.in website depending on various use cases. The use cases concentrated on improving the over-all delivery experience of customers on the website as well as Amazon mobile app. The technical aspects involved using languages such as Java, JSP and Perl/Mason. I also got a chance to work on the mobile android platform and gained experience of Android Studio. One of my projects also involved using the HTML5 Geolocation API and I learnt how to use it in a java project. Attaining these skill sets mainly require you to learn from practice and mistakes. The code reviews in this company are taken quite seriously and the team members ensure you come up with the most optimal code and it is written properly. Some of the projects which needed to be started from the beginning required the skill to dive deep into the problem and come up with a solution. This can be attained and improved only via experience. On the technical side, some of my major take backs from this organization are the ability to write industry level accepted codes. Also, I got to work on projects which were to be started from scratch and hence developed my ability to deep dive into problems, figure out their dependencies, come up with a design and finally implement the code. This experience also taught me simple but essential things such as how to talk with partner teams, communicate your issues comprehensively and accurately. Asking appropriate questions and over all team work. This time period has definitely prepared me for a future in the industrial side of Computer Science. My main source of motivation throughout this period of work was the faith and responsibilities my manager and other team members had entrusted me with and the satisfaction of being able to stand up to their standards. This would definitely be my biggest achievement here in Amazon.	2015-16-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	My PS station was Amazon Development Centre, Bangalore. I have been working as intern software developer with the In Tech department for the past few months. On the technical side of thing I worked mostly in Java along with some work on the Ruby on Rails framework. Over the past few months, I have learnt that industry development is significantly different from academic software development. There is a lot of emphasis on testing one's code thoroughly in the industry. This is a stark difference from academic development where testing is ignored entirely. Also, in the industry, all code is subject to code reviews and hence every line of code is seen and vetted for by at least two people before it is considered to be production ready. Scalability and maintainability of code is also given much greater importance. Documentation of the same code is as important as writing the code itself and there are instances where documentation can take more time than the actual development itself. This is to ensure that in the future, the code can be maintained by someone who has no prior experience working on the code. At Amazon in particular, there is a great focus on the principle of ownership. You are expected to 'own' your code, you are expected to take initiatives to improve it, you are expected to test it (most teams lack a dedicated QA) and you alone are responsible for the success or failure of it. You are expected to do this because you 'own' it and not because your manager or any other person told you to do so. There is also a deep emphasis on team-based development. Since Amazon is a very large company and comprises of multiple separate enterprises, the code base is also split at a very fine level and individual teams develop and manage these individual parts. All the members of a team are expected to know all parts of the codebase its own codebase so that any member can work on any part. There is no demarcation between a front-end engineer and a back end engineer. Everyone is expected to work on everything. This ensures that everyone develops a more rounded skill-set and are more flexible in their areas of expertise. To conclude, I would recommend this PS station to anyone who wants to do hands-on software development while also experiencing how a large MNC operates. Since developers at Amazon are required to work on end-to-end development, whether it be front-end or back-end, it helps you develop a diverse skill set. I can sincerely say that the experience and the skills I have gained here will help me a great deal in my future career prospects.	2015-16-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	My PS-2 was at App Store Developer Tech, Amazon Development Centre, Bangalore. This 5 months of internship provided me lots of experience in developing my technical skills. I got the exposure to many frameworks like spring and hibernate. I learnt to recognize the right and the wrong ways to do a task. This internship experience at amazon provoked me to think big while designing a solution. I learnt to work with distributed systems and figured out the difficulty to get simple things in place for distributed architecture which otherwise would have been very simple in a single host. I learned to build and design solutions which are easy to modify and scale. I had the opportunity to interact and learn from some great developers at amazon from Seattle. The culture at amazon helps you to develop and sharpen your technical skills by learning from your peers. There are regular brain storming session for design problems where you gain a lot of knowledge. Weekly Friday learning series sessions by peer members of the team help in being up to date about the happenings in your team and share knowledge. My managers and mentors were always very helpful in guiding me to the right point of contact for every problem. The best part of amazon is that you get the independence to speak out your thoughts and voice your concerns. I learnt to not shy away and be bold enough to express my views in a large audience. Finally I would like to point out that one who is yearning to learn something has infinite options and opportunities to look forward to at Amazon. I will be very thankful to my institute BITS Pilani for providing me an opportunity to gain such a wonderful learning experience.	2015-16-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	I have developed a sandbox testing tool for all developers at amazon. Tools used (Development tools - H/w, S/w): Amazon internal tools, java8. Objectives of the project: Develop a utility to ease life of developers in context of testing their services. Outcomes of the project: Highly resilient testing tool. Major Learning Outcomes: Learnt new technology, learnt how internally services work. Brief Description of working environment, expectations from the company: Best thing about amazon is that they dont force you to work, they just assign you work in the form of task, then you take ownership of the task to be completed. Everyone is very helping here. You can reach out to anyone in your team ask even silly doubt and sometimes you can even have high level discussion with your teammates. It is amazing experience to work here. But some things depend on your luck too. If have a good mentor assigned then life will be easy, but in case you dont have a good mentor, you are gonna have hard time.Just Work hard, have fun & make history.	2016-17-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	I worked as a part of the India Payments Issuance team. During my tenure as an intern I worked on various projects all of which were directly relevant to the ongoing product that our team was working on, the Amazon Pay wallet. My most significant project was building a view layer service which would support APIs for providing the transaction history data of Amazon Pay wallet and Amazon Gift Card wallet to various clients. I specifically worked on the API that would support the views for the retail website and the customer support executives. Some of my other projects were building an API that calls the registration service of the Amazon Pay wallet for a very specific use case. Designing email templates for the C2D use case of Amazon Pay wallet. Introducing the C2D use case in the existing add money flow so that it can be accessed by transaction history and accounting. Add money flow: A series of steps that ultimately lead to adding money in your wallet. C2D use case: think of it as a special case that allows you to add money to the wallet. (Cannot describe in detail due to confidentiality issues). Tools used (Development tools - H/w, S/w): Java, Elasticsearch, Mason, HTML, JavaScript. Objectives of the project: To deliver a new service that supports all use cases of providing transaction history data to various clients, along with the API implementation for the retail website and the customer support executive use case. Outcomes of the project: Delivered. Major Learning Outcomes: It taught me a lot about scalable design and issues that you face when trying to implement an architecture while estimating the needs of the present as well as the future and trying to balance it with stringent deadlines. Brief Description of working environment, expectations from the company: Most of the work would be in java but you may have to work on the front end at times. The company values work a lot so you get a lot of work and can always ask for more but that does not mean it is an all work and no play place, the team members are usually young thus you get to have a lot of fun as well.	2016-17-sem2
Amazon Development Center, Bangalore	During the course of my internship with the MARS (SSPA Automation) Team in Bangalore, I got to work on a wide range of tasks, involving and requiring both technical and non-technical skillsets. All my contributions during the internship were centred around the team's 2017 goal, i.e., to deliver an automation framework to reduce human judgement effort in moderating content, and to improve moderation productivity by 30%. The MARS tech team is building services that will	2016-17-sem2

Company	Experience	Year
	enable automoderation of content, with a current focus on advertisement-creative content. The team will also be building services around duplicate campaign detection, advertiser/campaign risk assessment and text understanding, which will act together and serve in improving productivity of content moderation. Over the previous few months, I contributed majorly towards the development of an Annotation Pipeline, which is the most important component of the service being built by our team. I worked on the annotation pipelines and core logic to automatically spot various errors and annotate the input content with the findings. I also carried out exploratory analysis required for the some of the annotators, during the initial phase of my internship. And, towards the latter half, I drove the initial phase of an upcoming service, by carrying out an analysis on internal ad-campaigns data, which laid the foundation for a massive potential increase in productivity, by allowing for auto-moderation of duplicate content. Tools used (Development tools - H/w, S/w): Language - Java. Major Framework(s) - Apache UIMA, spring and internal tools. Some good skills to have apart from CS fundamentals - GIT (version control) and spring. Objectives of the project: Development of an annotation pipeline to enable auto moderation of content Outcomes of the project: The annotation pipeline and the service were launched successfully and are in production. Major Learning Outcomes: Writing modularized production level code, learning to work with new frameworks and to build production-level components using the same, efficient communication strategies across teams and documentation. Brief Description of working environment, expectations from the company: At Amazon, SDE interns are treated like SDE-I employees and are allotted work similar to what an SDE-I is expected to deliver. This ensures that interns get to work on good projects that are valuable from a business point of view. Interns get to do everything an SDE-I does and at times more, including attending stand-up meetings, team tech talks and discussions, meetings with senior members, depending on the type of project and work involved. I got to work on some important components during my internship and my overall experience was really good, as there's a lot to learn that you do not get to learn at college.	

Company	Experience	Year
Amazon Development Center, Bangalore	Created a new service for Amazon Now for sending emails and SMS to the seller for each order rejected by a customer during delivery. Tools used (Development tools - H/w, S/w): Java, Spring Beans, MVC, Dynamo DB, SQS, SNS, Mockito, Power mock. Objectives of the project: To provide more visibility into the rejects made by a customer so that there is reduction of the gap between amount clawed back from seller's account and the amount of reconciled reject inventory. Outcomes of the project: Emails and SMS sent for each Order rejected and reduction of the gap mentioned above. Major Learning Outcomes: Java, Spring, Dynamo DB, SQS, SNS, Mockito, Power mock, Learning best coding practices, Industry standard coding practices. Brief Description of working environment, expectations from the company: It was a nice learning curve they let you own the project which you are working on which is a very nice thing to do. Work pressure is comparatively on the higher side.	2016-17-sem2
Amazon Development Center, Bangalore	Internal tool to automate on boarding of clients on to team platform. Process include merging their code into teams code, testing and deploying without the intervention of team developers. Tools used (Development tools - H/w, S/w): AWS services (SQS, SNS), Internal tools. Objectives of the project: Queue management of incoming deployment requests. Outcomes of the project: Design and implementation complete. Major Learning Outcomes: Knowledge of AWS services like lambda functions, SQS, SNS and their role in design decisions. Design choices to take up particular approach. Brief Description of working environment, expectations from the company: Team expects you to be a constructive member in all design discussions and work to be delivered and presented to the team. Sprint planning tells everyone the progress of each task taken by a person. Any design choices to be discussed with teams by providing alternatives and discussing the pros and cons of each approach and arriving at a most feasible solution. Company expects you to reach out to the teams to clear any hurdles. On time delivery on work. Getting all the code reviews before we leave the company.	2016-17-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	Worked on launching new push programs in markets of Europe and North America. Also worked on writing a new package to fetch different types of deals data, transform it and publish to certain places. Also worked on a type of migration from older platform to revised platforms. Tools used (Development tools - H/w, S/w): Amazon Web Services (AWS) like EMR, SWF, S3, G2S2 . IDEs like Eclipse, IntelliJ. Languages like Java, Java Spring, Hive, Python, handlebars. Objectives of the project: 1) Worked on launching new push programs in markets of Europe and North America. 2) Worked on writing a new package to fetch different types of deals data, transform it and publish to certain places. 3) Worked on a type of migration from older platform to revised platforms. Outcomes of the project: 1) Launched two push programs worldwide. 2) Package written and pushed to production stage. 3) Migrated successfully. Major Learning Outcomes: 1) Functioning of huge companies. 2) AWS services. 3) Team work and collaboration. 4) Handling high pressure situations. Brief Description of working environment, expectations from the company: The work timings at Amazon are not fixed, you don't have to clock in certain hours, you may even choose to work from home if required. However what matters is your delivery. As long as you're completing your work on time, that's enough. My manager and mentor were very supportive and helpful throughout. I would say that it's a great environment to work in.	2016-17-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	I joined my internship at Amazon Bangalore on 16th January and was a part of the App Engagement team. I worked on developing a Metadata console for handling data associated with a particular team platform.This project helped me immensely by developing my core skills and knowledge.I also got a great opportunity to develop a web application from scratch which interacted with other platforms. Tools used (Development tools - H/w, S/w): HTML, CSS, Javascript, Spring MVC framework, Java, Twitter Bootstrap, tomcat Server. Objectives of the project: Developing a Metadata console for handling data associated with a particular team platform. Outcomes of the project: Developed a Metadata console for handling data associated with a particular campaign and providing various operations to handle that data. Major Learning Outcomes: The core concepts involved in the process were HTML, CSS, Javascript, Spring MVC framework, and Java. Additionally, I was required to get acquainted with Amazon Internal tools and processes. I also got first hand experience for designing the flow for a web application.Discussing design ideas with my peers shown me that one needs to have sound theoretical knowledge to provide a great design. Additionally, as an amazonian, I constantly attempted to use the 14 Leadership Principles as an integral criteria for making decisions.Working with many stakeholders was an important part of my project and I definitely gained some insight to do it in a better way. Additionally, I also got acquainted with agile software development methodologies like Scrum and Kanban and working with a cross-functional team. I have learned that Bias for Action is an important characteristic to be a good programmer. Brief Description of working environment, expectations from the company: The working environment is highly dynamic. One needs to interact with a large number of stakeholders to ensure that all of them are kept at the same page. There are no fixed timings and one is just expected to complete one's work. The peers are friendly and offer guidance whenever approached.However, there are changes in product specifications quite frequently and it leads to a lot of wastage of time which could have been easily avoided if things were envisioned clearly before.	2016-17-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	My project includes implementation of 8 APIs for Amazon Pay (onboarding non amazon merchants).These are implemented in C# for merchants who have their servers on .net. Apart from this I have work on front end and back end changes for UI website for LPAIN. Tools used (Development tools - H/w, S/w): Visual Studio, C#, Ruby on rails,java,amazon internal tools. Objectives of the project: *Would enable the merchant to have a browser integration with the PSP UI. i.e. if the merchant wants to invoke the PwA India payment flow from their mobile or desktop website. *The server side SDK would provide a new method called – 'GetProcessPaymentUrl (merchantId, merchantPayload (encrypted probably or same payload as SignAndEncrypt method), callbackUrl/returnToUrl)'. *The merchant web app (mobile or desktop) can redirect to the url provided as a response of the above method to conduct payments. The PSP server would detect the need to authentication based on cookie presence, conduct the required operations and return the control back to merchant app by redirecting the browser with PSP response on the callback url as parameters. Outcomes of the project: 8 working api's used by many merchants, UI changes on wesite (implementing sign out feature). Major Learning Outcomes: C#.net, Ruby on Rails. Brief Description of working environment, expectations from the company: Working environment is very good.Working hours are very flexible.Company expects you to work sincerely and follow proper process in completing any task.Designing is also focused alot as many time we need to use other team's services. Short Summary of work done during PS-II: Integrated payments.amazon.co.uk and payments.amazon.de websites. Tools used (Development tools - H/w, S/w): Dynamo db java and ruby on rails. Objectives of the project: Integrated payments.amazon.co.uk and payments.amazon.de websites. Outcomes of the project: Integrated payments.amazon.co.uk and payments.amazon.de websites. Major Learning Outcomes: Dynamo db git and testing. Brief Description of working environment, expectations from the company: Good working environment and good learning.	2016-17-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	The work was majorly to create a web application whose main purpose is to provide the main users of the projects such as the finance team, managers of all the teams a tool which could provide them a summary and a detail about people present in their hierarchy to make hiring and allocation to projects related decisions. Objectives of the project: The objective of the project was to provide the main users of the projects such as the finance team, managers of all the teams a tool which could provide them a summary and a detail about people present in their hierarchy to make hiring and allocation to projects related decisions. Outcomes of the project: The expected outcome of the project was to provide insightful reports about the headcount present in various stages. Major Learning Outcomes: The key learnings from the project were: MVC architecture, web technologies, Version control system. Some of the other learning such as reading and understanding a documentation as direct examples would not always be available. Brief Description of working environment, expectations from the company: The working environment in the PS station is very team specific and varies drastically from team to team.	2016-17-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	I have successfully completed one called destination based packaging and flash gst transshipments, which I successfully completed in my 5 month tenure at Amazon and during the project I learnt a lot in the areas like AMAZON WEB SERVICES like SNS, SQS, DYNAMODB, CORAL SERVCES, AMAZON INTERNAL TOOLS and how the entire software building process. Tools used (Development tools - H/w, S/w): Amazon web services like sns, sqs, dynamo-db, coral servces, amazon internal tools. Objectives of the project: The Destination-Based Packaging project aims to reduce the cost of shipping across India. Transitioning to polybags for all AFT shipments across the market provides a National-level transportation and packaging entitlement of $16.7M, using 2015 volume. With Destination-Based Packaging, we would be able to enter a kilometer value into a field and have all shipments traveling from origin FC to customer within that defined kilometer radius be recommended into polybags (exclusions will be through SWAN rules). This solution will initially target up to the Regional-level, accounting for $6M of the $16.7M AFT entitlement. Outcomes of the project: Since EFP is a growing part the India marketplace, leadership teams in India would like to capture the savings through EFP sites as well. To replicate the same solution for EFP sites in India, customer's zip code and fragile attribute would be the key elements to recommend Polybag to a potential Polybag'able order/shipment. Major Learning Outcomes: In terms of learning, the experience has been nothing short of terrific. The time spent at PS-2 has been a great teacher in various spheres, including but not limited to understanding corporate life, expert guidance, apprehending new technologies and their developments and building a professional character.I learnt a lot in the areas like AMAZON WEB SERVICES like SNS, SQS, DYNAMO-DB, CORAL SERVCES, AMAZON INTERNAL TOOLS and how the entire software building process. Brief Description of working environment, expectations from the company: Working environment at Amazon is quiet hectic. One would not get free time while working here, you will always be involved in some work or the other. Learning and industrial experience gaining is very well at Amazon. Company doesn't treat you as an intern, they treat you as a full time employee and expects work to be done according to that. Employees here are quiet helpful.	2016-17-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	Was a part of the Amazon Fulfillment Technology team (AFT), particularly AFT-Fresh, which deals with Amazon Fresh.Amazon Fresh is a subsidiary of the Amazon.com. It is a grocery delivery service which is not yet released in India. As part of my internship, my first couple of weeks were bug fixes to get a hang of the code base. Following that, I worked on feature requests in existing portals for the next month. After these tasks were complete, I started work on a project that was starting in the team, and got ownership for the same. Tools used (Development tools - H/w, S/w): Majorly worked with AngularJS, Spring Framework, Bootstrap, Internal Builder tools, Rest Apis, AWS Technologies like S3, SWF, SQS. Objectives of the project: Building a portal for prioritization of freights, mold an algorithm for the same, and building services and client facing portal for the same, while taking care of scalability , load balancing and actual cost of resources. Outcomes of the project: Pushed the same into production in its first phase. Major Learning Outcomes: Learned new frameworks, but the major learning was pertaining to load balancing, optimized scheduling , and maintaining scalability of the system. Brief Description of working environment, expectations from the company: The environment at the company is quite casual in the sense that you can wear what you want, come when you want and there is always the option to work from home. Apart from that, experiences will be team dependent. In most teams, the manager's are quite understanding, and taking leaves, etc. is not a problem. However, there are quite rigorous timelines to be met for deliverables.	2016-17-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	Amazon Team: Seller Success and Rewards (SSR: Platform Development). Designation: Software Development Engineer Intern. The SSR team works to ensure seamless selling experience for Merchants/Sellers. Goods and Services Tax (GST) is an upcoming system of taxation in India which will merge many individually applied taxes into a single tax. GST is expected to be applicable from 1 July 2017 due to which sellers will have to be GST compliant in order to have a seamlessly selling experience on Amazon.in. I worked on Project: GST, which gave me a lot of exposure to work in an Agile Software Development Process. Working with the experienced people in the team gave me an opportunity to learn the best practices of Java 8, Angular JS and JSP; apart from Git, Amazon Internal Tools, Data Store and Frameworks. Tools used (Development tools - H/w, S/w): Java 8, Angular JS, JSP. Amazon Internal Tools and Frameworks. Objectives of the project: 1. Incorporate Goods and Services Tax (GST) in the Seller Registration Process. 2. GST Interceptor for Compliance. Outcomes of the project: Objectives have been met by enabling the sellers to update their GST Details, eventually ensuring seamless selling experience, even after GST comes into force. Major Learning Outcomes: Best Practices: Java 8, Angular JS, JSP. Amazon Internal Tools and Frameworks. Brief Description of working environment, expectations from the company: Working culture is very good and it helped me further improve my technical and non-technical proficiency.	2016-17-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	I had 4 objectives to achieve during my internship. Two of them were building automation tools for amazon's internal workflows. UI and integration was my responsibility and i actively contributed in backend services. Other two tasks were to enhance existing workflows as a result of new business requirements. Tools used (Development tools - H/w, S/w): NoSql Databases, Java, Spring Framework , HTML , CSS , Bootstrap. Objectives of the project: 1. Build UI for automation tools built for removing manual workflows. 2. Integration with back end services. 3. Enhancements of workflow pipelines bases on new business requirement. 4. Build service to upload critical data securely to Data-ware house Outcomes of the project: 1. Flow of data from Database to Data-ware house was migrated to redshift. 2. An automated tool to satisfy amazon internal workflow which took 4 days to complete now took less than 15 minutes. Major Learning Outcomes: NoSQL database, Java, JavaScript, Html, Bootstrap, CSS, Spring Framework, Coral Services. Brief Description of working environment, expectations from the company: Amazon work culture is really awesome. There is no time boundations. Thw work quality is really advanced. They insist of exploring new and new technologies and not just rely on legacy ones. They follow deadlines concept by setting reasonable deadlines to complete a set of tasks.	2016-17-sem2
Amazon Development Center, Bangalore	I did the migration of internal tools used by my team to a horizonte stack from the native Mason stack. It involved the task of reading the old code and creating new tools in stack adhering to MVC architecture using spring MVC. Tools used (Development tools - H/w, S/w): IntelliJ, BRazil build system. Objectives of the project: Migration of internal tools. Outcomes of the project: Migrated all tools. Major Learning Outcomes: Got a significant insight in designing and developing tools from scratch using spring framework. Brief Description of working environment, expectations from the company: The work and life balance is good and everybody is really helpful.	2016-17-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	I worked with the Offer Listing Page Team of Amazon: 1) Migrated Amazon global seller changes on Seller Profile Page from perl/mason framework to a new technology internal to Amazon (Java based stack) according to the given use case. 2) Extended support in Amazon Seller Profile Page launch by addressing different pre-launch issues. This involved understanding the old codebase (perl/mason based) and new codebase (java stack based) and resolving different issues. 3) Worked on a new feature request from scratch on Offer Listing Page that involved both backend (using an internal Amazon query language similar to Prologue) and frontend work (coding jsps using Amazon internal tool to render HTML for UI changes). Tools used (Development tools - H/w, S/w): Amazon internal tools, Wireshark, Eclipse, Java, MVC, Perl, Mason. Objectives of the project: 1) To drive a new feature request on Offer Listing Page that would enable the customers to have an optimized experience while shopping. 2) To extend support in the ongoing migration process from a perl/mason based stack to Java based stack. Outcomes of the project: 1) The first iteration of the new feature request is development complete. 2) Seller Profile Page in JP marketplace is launched. 3) Amazon global seller changes made for Seller Profile Page are out in production and no subsequent issues were faced. Major Learning Outcomes: 1) Each dev-task involved writing code and corresponding unit tests to cover each line of code. This results in thorough testing of the code written. 2) All the changes undergo code review process that have helped me in improving coding standards. 3) Professional ethics. 4) Time management. Brief Description of working environment, expectations from the company: Amazon has flexible working hours. I liked the overall working environment though sometimes devs overwork to meet deadlines or to handle escalations. As an intern, I got to work on things that full timers work on so overall it was a good experience.	2016-17-sem2

Company	Experience	Year
Amazon Development Center, Bangalore	Work is related to internal services of Amazon and was mainly in Java and Spring MVC framework. Tools used (Development tools - H/w, S/w): Spring MVC framework, Java, Javascript, JQuery, JSP, Mockito, JUnit, powermock. Objectives of the project: To help team members is debugging event failures in team's platform. Outcomes of the project: A successful debug tool. Major Learning Outcomes: Improved coding skills and standardized ways of designing and coding. Brief Description of working environment, expectations from the company: Helpful, Good environment.	2016-17-sem2
Amazon Development Center, Bangalore	Creation of a new service for Amazon Now for notifying the sellers about the orders rejected by a customer at the time of delivery. Tools used (Development tools - H/w, S/w): Spring MVC, spring beans, Dynamo DB, SQS, SNS. Objectives of the project: Notification system for sellers during any order rejects. Outcomes of the project: It helped the organization to retain its seller base by increasing the trust of sellers on Amazon. It also contributed in reducing the losses incurred by sellers by reducing the gap between the refunds clawed back from seller account and the reject inventory received back by the seller. Major Learning Outcomes: Software design, coding skills and learning of new technologies like Spring MVC, spring beans, Dynamo DB, SQS, SNS etc. are the key learnings made during my internship. Brief Description of working environment, expectations from the company: Nice working environment in which you are the owner of your project.	2016-17-sem2
Amazon Development Center, Bangalore	Making changes in the Amazon retail checkout flow for IN marketplace. Tools used (Development tools - H/w, S/w): Sublime Text, Browser. Objectives of the project: To make changes in the retail checkout flow to enable certain business requirements. Outcomes of the project: Company expects the same dedication from an intern as from a Full time employee. Amazon has a set of leadership principles, on the basis of which the employees are expected to work with. The working environment is good. Brief Description of working environment, expectations from the company: Understanding the code flow of Amazon's checkout flow for all marketplaces.	2016-17-sem2
Amazon Development Center, Chennai	Comments: He contributed well in development of tool which help to justify market claim. He did great job in getting the requirements, design and finally deliver. He interact with different team members to get the information, used that information to fix major issue in framework and app.	2016-17-sem2

Company	Experience	Year
	Designation: Software Development engineer Comments: Tirth is a very focused and dedicated. He is very driven. He took up major codding task and completed them very very. His code quality is really good. Designation: Manager, Alexa Voice Operations. Comments: Review for Sai Srikar Kuravi During the course of his internship, Srikar has done a good work. He completed all the tasks assigned to him. He met all his deadlines even though the tasks were not straight forward. His level of understanding the problem statements is quite good. His strong analytical skills helped him finish his tasks right on time. He has strong commitment levels and is never hesitant in taking up new tasks. Although few basic skills like naming conventions in codes and design skills were not strong enough, during the course of internship he showed a great progress. Designation: Project Manager Comments: Work has been satisfactory and has significant contribution to the project development. Designation: Software Developmemt Engineer, Device Software Technology Comments: She possesses good fundamental knowledge which helped her to contribute well on all the projects she has worked irrespective of the technology or domain. She has developed a good understanding of Amazon systems in a short period. With my interactions with Lavanya, I noticed that she dives deep into the problem and tries to come up with different solutions. She has good design skills which she has applied in the tasks assigned to her. Lavanya was assigned to create a DynamoDB instance and a Web service. She got very minimal guidance in this task. With the help of public documentation she has quickly completetd the task and integrated the DB with the service. Lavanya has shown good ownership skills in her tasks and she picked up the industry standard coding skills faster which helped her deliver results with ease. We expect interns to be strong in CS fundamentals and coding which eventually will help them pick up any task and contribute in a fast paced environment. We expect interns to work independently by resolving the conflicts on their own and with minimal guidance whenever needed. Also, it is good to express their ideas loudly without hesitation. Comments: The industry looks for students with courses on IoT, Big Data Analytics. They need to develop skills on cloud computing and data analytics Student	

Company	Experience	Year
Amazon Development Center, Chennai	Created an Offer Validator that would do syntactic validation in a schema definition language and semantic validation in Javascript. Core development work involving coding in Java mainly, unit testing, integration testing. Tools used (Development tools - H/w, S/w): Java, Intellij. Objectives of the project: Validate the syntax and semantics of an Offer. Outcomes of the project: Offer Validator. Major Learning Outcomes: Java design patterns, good coding skills. Brief Description of working environment, expectations from the company: Flexible timings, high expectations, approachable mentor and manager, read and be aware about various frameworks, tools and technology, take ownership of your code.	2016-17-sem2
Amazon Development Center, Chennai	Memory Monitoring Tool: I have worked on development of memory monitoring tool specially developed for Kindle devices. It is a light-weight and useful memory monitoring tool to visualize application's memory consumption trends and identify memory leaks and memory optimization areas with call trace information. There are many open source tools like Valgrind were used for memory analysis which has many limitation for e.g. these tools themselves consumed lot of RAM and many timeout issues occurred and the devices become slow and unpredictable. Download Metrics Tool: A weekly check of failed or delayed book downloads is done to find bugs or optimize the present algorithm. A manual work of filtering device types and downloading logs had to be done. After downloading the logs, each of the logs had to be analysed manually for filtering out false positives. This would take few days and by then, the next week download metrics have to be analysed and reported. For a developer, this would be hectic and is a never ending process. I built a tool from scratch to automate the entire process mentioned above. This task completes within minutes. Bugs: Apart from the above projects, few major and critical bugs were also assigned to solve within a day or two. Tools used (Development tools - H/w, S/w): Kindle is developed on Linux kernel, and all the development is done for Linux platform. Java is mainly used for UI and platform level development. C/C++, python and shell scripting are used at system level development. Objectives of the project: The memory monitoring tool developed will be used across the teams to optimize the memory consumption of their processes. Since Kindles are low RAM devices, there was a need of light weight memory monitoring tool. Outcomes of the project: The tools I	2016-17-sem2

Company	Experience	Year
	developed are internal tools for monitoring and optimization. The memory monitoring tool is used across the teams in Kindle development to track memory leaks and find places to optimize the memory. The Download metrics tool is used by developers to find failed or delayed downloads on Kindle device from logs. This tool has definitely saved lots of man-hours spent in downloading of appropriate logs and removing false positives. The developers can directly analyse the true failed or delayed book downloads if there any. Major Learning Outcomes: Working in a company like Amazon gives you an end to end understanding of product development to its sales. Amazon insists on best coding practices and one can learn the best industry practices of software development and testing. Brief Description of working environment, expectations from the company: Amazon works on cutting edge technologies and on products every person wants to own. In Amazon Chennai, there are lots of product development teams working on Kindle, Alexa devices, Fire TV and other home products. For Kindle, most of the development work above kernel level, like platform, middleware, UI/UX of takes place in Chennai. Interns from colleges like BITS and NITs, usually get good projects on these devices. Every intern gets a mentor and they are really helpful and give many insights on your work. Amazon insists on best coding practices and there is a lot product development work happening, so work can get hectic at times but if you are really into coding, you can get the best experience from here.	

Company	Experience	Year
Amazon Development Center, Chennai	The work involved learning various concepts of design level problems and applying the same in order to create a new service to provide support for the products for the company on both the product side as well as the server side. Objectives of the project: Successful implementation of the desired services and reach a state that is production ready. Outcomes of the project: The product side implementation was completed successfully, although the server side implementation is still in the pipeline. Major Learning Outcomes: Code extensibility, Industrial standards for better coding practices, Design implementations and practices for practical problems. Brief Description of working environment, expectations from the company: The working environment gives exposure to a wide range of opportunities. The organization expects students to make full use of the resources and exposure it provides and convert it into production ready code that may have a major impact on the services the company provides.	2016-17-sem2
Amazon Development Center, Chennai	I was assigned to Alexa Voice Operations team in Amazon Development Centre, Chennai. I got a chance to work on upcoming devices and upcoming features of Amazon Alexa. My task was to statistically analyze the performance of a new Alexa feature. It involved observing outcomes of the new feature, separate failures and pass cases, analyze fail cases and come up with the reason for failure, find logic to eliminate false failures and finally calculate true performance metrics etc. Most of my work was in python and java. I got a chance to understand the life cycle of Alexa and in general more on how voice based systems work. Tools used (Development tools - H/w, S/w): Software tools: Internal Amazon developer tools. Hardware devices: Amazon echo, echo dot and few upcoming devices. Programming Languages: Python and Java. Computer Science Principles: I got a chance to see the use case of FST's from TOC in speech based models. Objectives of the project: Software development. Outcomes of the project: Improving statistical performance of a new feature. Major Learning Outcomes: During the course of the internship, 1. I have improved a lot in my coding standards. 2. I have learnt many best practices to be followed in designing a new package. 3. I got to know about the need for good naming conventions in codes (This might not sound as a significant outcome, but honestly, this is one of the most important skills a coder must possess). 4. Effectively communicate in mail threads etc. Brief Description	2016-17-sem2

Company	Experience	Year
	of working environment, expectations from the company: Firstly Amazon Development Centre, Chennai is the only centre outside Seattle that works on physical products like Alexa, Kindle, Fire TV etc. So work here is really challenging. Work Environment: Work environment is the biggest plus of Amazon for an intern, because 1. Flexible working hours, 2. Very talented peers who are always willing to help 3. Good development work (not routine Web dev related work) with healthy competition 4. Frequent discussions, suggestions and feedback from mentor and manager from time to time. 5. Chance to work on core computer science concepts like OS, Networks etc. Also chance to work on upcoming features and devices. 6. Finally, Chances to get converted depends only on intern's performance and nothing else. Amazon has pretty high expectations: Coding Standards: Amazon expects very high coding standards. Good design principles while coding. Also, very strong OOPS concepts. Data Structures and Algorithms: Efficient implementation of DS and Algos where ever necessary. (This does not mean use tries or Red Black trees frequently, It means for a given problem, use efficient data structure or algorithm) Good understanding of core concepts of OS (like process, threads, deadlocks etc.) is a requirement for some teams like Kindle.	

Company	Experience	Year
Amazon Development Center, Chennai	Code Analysis Tool. Code Analysis Tool is an IntelliJ plugin that works with IntelliJ and Android Studio IDEs.This provides porting instructions, diagnostic information by inspecting the application's source code and log files. The tool analyzes the code and logs, provides suggestions and performs automatic code insertion. Web service and Android application development. Research project that enables Amazon promoters to connect with Amazon customers. This project was a great learning experience as it involved me building it from scratch. I started by gathering requirements, then the design and implementation. This task comprised of developing a test application to, a back-end service with connection to Dynamo DB and an application that receives. Tools used (Development tools - H/w, S/w): Android Studio, Eclipse. Objectives of the project: Adding new features, web service development, android application development. Outcomes of the project: Added features to the code analysis tool, developed a web service integrated with Dynamo DB and an android application. Major Learning Outcomes: I learnt many new technologies, best coding practices, good coding styles. Brief Description of working environment, expectations from the company: The working environment was great with helpful and knowledgeable people around. The major expectation from the company was to have a strong base in data structures, computer science fundamentals and algorithms.	2016-17-sem2
Amazon Development Center, Delhi	This PS gave me totally different and amazing experience.one of the important aspect of an Organization from employees point of view is working culture he is kept to work in, in amazon environment is friendly. we interns were given the same respect and treatment as any other employee even our sits were besides our manager. The major learning that I acquired in my 5 months exposure at Amazon Development Centre, one of world's most prestigious organization, are twofold. The first was the technical aspect of things in which I was introduced to many different programming concepts and the second was of character building. The technical aspects include me mastering various concepts necessary for working on real time software or projects and also acquiring the skill set to tackle the problems relating to Level of service criteria. Apart from this aspect, the humility and social interaction I saw in my team has left its impression on me and will help me go a long way. This time period has definitely prepared me for a future in the corporate side of Software Engineering. The	2015-16-sem2

Company	Experience	Year
	immediate exposure to real life problems in the industry along with responsibility attached with the work that I conducted has left me with a sense of professionalism and taught me office-work ethics. The project was automation of Workflow used at Amazon for merchant Registration. This was basically to reduce the manual efforts required to upload new workflow whenever there is any change in workflow previously. This project helped me in improving my technical skills. Apart from technical growth In my time here, I learned how to work alongside other people and learned the true meaning of teamwork and how important colleagues are in an office space. From my seniors I learned the way to guide a person working under me. The way my mentor listened to my doubts and provided me with the right amount of help, not too much but just enough to set me in a path of self discovering the solution. As Amazon is among the world's biggest retailers in market and such a pretty experience from big brand I have never thought of now I would like to fold by saying that working at Amazon has left me stronger both cerebrally and spiritually. This has been an experience of a life time and has definitely made a better engineer and a better person. My major accomplishments include not any medal or certificate but the trust and confidence and learning that my mentor and teammates showed in me while doing the work load. My ability to solve the problems in the way advised and also in the time allotted is definitely an accomplishment for me.	

Company	Experience	Year
Amazon Development Center, Delhi	I joined my intern at Amazon on 18th January 2016 as Software Development Engineer Intern. I was fortunate enough to work on some cool projects, which helped me grow as an engineer by developing my core skills and knowledge. The discussions with my peers, regarding the designs have provided me with deep insight to OOP principles. I have learned that it is important to be biased for action; there can be N number of solutions to a problem but we got to choose that is the best for us, both in terms of resources and sustainability of the code. The technologies that I have worked on-Java, Dynamo DB, SQS, and other AWS tools, UI frameworks like AUI, etc. will provide me an edge in my career ahead. Today everyone is using these Amazon tools to get their work done in a simpler and easy way, having a good understanding of these will enable me to mark out my presence among others. There are very talented people at Amazon, I make sure to read the code written by them as it not only makes me understand-how, when and why to use features of Java but also introduces me to some new Java8 features-like streaming functionality. To conclude, I will say, the practice school program of BITS is simply awesome. This provides us with the opportunity to implement what we learn in college. It also gives us an environment, where we can dive deep to understand how things are working in world and make our decisions wisely for our career ahead. I will say these six months should be used to make mistakes, learn and grow from them, have a thorough understanding of our subject, so that when we enter our industry as full-fledged engineers, with BITS Pilani degree to back us up, our peers should have nothing but respect and appreciation for us. In short, the goal for internships should be nothing but excellence.	2015-16-sem2

Company	Experience	Year
Amazon Development Center, Delhi	Comments: Amazon, is an American electronic commerce and cloud computing company that was founded in 1994 and is based in Seattle, Washington. It is the largest Internet-based retailer in the world by total sales and market capitalization. Amazon Development Centre, Gurgaon is focused on improving the last mile delivery services and automating registration workflow for 3rd party sellers. Recently, they have started using Natural Language Processing techniques to automate seller registration process. Interns are expected to work on latest technologies including Java Springs, Horizonte, Angular JS, Node JS, Python, Dyanmo DB and many other proprietary tools//services of Amazon. Organization look forward to have interns who have knowledge of cloud computing, Artificial Intelligence and have excellent programming skills along with good oral and written communication skills. In order to have better internship experience, students must learn one of the Version Control System (Preferably GIT), revise courses Object Oriented programming, data structures, design patterns and follow standard coding guidelines. Student	2016-17-sem2
Amazon Development Center, Delhi	Built a referral system for sellers on Amazon. Tools used (Development tools - H/w, S/w): Software: Java Development. Objectives of the project: To build a referral system for sellers on Amazon. Outcomes of the project: Built a referral system for sellers on Amazon. Major Learning Outcomes: Enterprise style coding. Brief Description of working environment, expectations from the company: Typical IT work environment. Work is highly team specific.	2016-17-sem2
Amazon Development Center, Delhi	Brand Registry -- registered brand owners registering as seller. Made registration pipeline for the newly launched brandregistry.amazon.com. Tools used (Development tools - H/w, S/w): Java, Javascript, AUI, Ruby. Objectives of the project: Registered brand owners registering as seller. To prevent fraud sellers registering as "recognized" brands. Outcomes of the project: Delivered before time. Major Learning Outcomes: WebApp development Brief Description of working environment, expectations from the company: Amazon Development Center, Delhi has a very welcoming environment towards the interns. People help you grow as an individual and as a software developer. Expectation from the company: 1. Fast Learning 2. Deliver Results 3. High growth rate	2016-17-sem2

Company	Experience	Year
Amazon Development Center, Delhi	The main work during PS-II was to solve a business problem for extracting information from unstructured documents. This involved much of the research work and doing POC (Proof of Concept). The main technology used is NLP (Natural Language Processing) and the programming languages are Python and Java. Tools used (Development tools - H/w, S/w): S/w - Python, Java, NLTK, StanfordCoreNLP. Objectives of the project: To extract information from unstructured documents using NLP (Natural Language Processing) and continuously enhance the results based on the previous outcomes. Outcomes of the project: The project was successfully completed and the work was given a good shape. The final production code was written and submitted. Major Learning Outcomes: 1) Coding practices followed in industry. 2) Git and version control. 3) NLP (Natural Language Processing). 4) Machine Learning concepts and applications. 5) Formal documentation of work. Brief Description of working environment, expectations from the company: Working environment is good. The facilities provided are awesome. The team is always reachable for help. The main thing is that there is proper and regular follow-up for the work. So, it provides a good professional experience. The expectations of the company are to complete the assigned work on time and reach out to them for any help needed.	2016-17-sem2

Company	Experience	Year
Amazon Development Center, Delhi	Had a great time using new tools like AWS S3, Redshift and SQS. Frontend developing using Django and Python. Also had a chance to work with a variety of databases like DynamoDB offered by Amazon as well as other internal Amazon databases. Tools used (Development tools - H/w, S/w): S3, SQS, GIT, MySQL, Django. Objectives of the project: Create Seller Reimbursement and Clawbacks Engine. Outcomes of the project: API through which reimbursements to sellers are done. Major Learning Outcomes: Learning about the complete architecture of the Amazon wide delivery. Systems and applying my knowledge to debug issues and completing the testing for timely delivery of the projects. Brief Description of working environment, expectations from the company: One of the biggest plus points at Amazon is the amount of knowledge one can gain continuously. There seems to be no saturation point whether you are a fresher, a person with 2 years of experience or someone with 10 years of experience. The breadth of technologies and continuous improvisations, that too with increasing scalability, just keeps one excited. The work is always customer oriented and the impact of the smallest of changes can directly be seen through the customers. Also, the amazing number of tools present at Amazon make the job so much more fun and easy for a developer. There is literally a tool for everything. The work culture is generally good and the work environment largely depends on the team. All in all, great place to learn and work.	2016-17-sem2

Company	Experience	Year
Amazon Development Center, Delhi	Worked on the store-app under the IHS team of Last Mile technology. The main objective was to build support for database in the app itself so that efficiency improves as well as app can function without internet. Tools used (Development tools - H/w, S/w): H/W: Macbook pro. S/W: Android Studio, IntelliJ, Amazon tools , GIT. Objectives of the project: Support the store-app operations in offline mode as part of the integration project of the StoreApp and the RabbitApp. Outcomes of the project: App Database along with an offlineAgent which supports the offline operations of the store-app. Major Learning Outcomes: Android basics and advanced concepts: Services, Content Providers, AIDL. Brief Description of working environment, expectations from the company: Since shifting to new office, the facilities have greatly improved. Team members are very motivating and provide help in whatever way they can. During March-April, 4 of the members left the team due to which we had to deal with severe bandwidth issues. However the team coped up well and have their best to develop the project and launch the app after a 2 week delay (which was acceptable).	2016-17-sem2
Amazon Development Center, Delhi	The current geocoding service used by Amazon involves the use of BingMaps and Cached Data. This service is called StoreLocatorService, and is on the path of deprecation. A new Geocoding Service developed by the Amazon Geocoding team is meant to replace it. This report contains the details of merging the StoreLocatorService with the new geocoding service API. Tools used (Development tools - H/w, S/w): Geocoding addresses, BingMaps, MapMyIndia, DynamoDB. Objectives of the project: Geocoding Locations of pickup points. Outcomes of the project: Migration of services. Major Learning Outcomes: Geocoding Addresses. Brief Description of working environment, expectations from the company: The work environment is really motivating and supportive. All the engineers whether at a senior level or at a junior level are extremely helpful.	2016-17-sem2

Company	Experience	Year
Amazon Development Center, Delhi	Automated ticket handling process for amazon. Tools used (Development tools - H/w, S/w): Brazil, Intellij. Objectives of the project: Automating ticket handling process. Outcomes of the project: successfully automated ticket handling process. Major Learning Outcomes: Spring, git hub, elastic search, design patterns. Brief Description of working environment, expectations from the company: I was part of TRM (transport request management) team in gurgaon. My team handles shipments in different geographies and there get a lot of trouble tickets. My project was to design an engine which can automatically resolve these tickets. During my internship i gained knowledge about elastic search and various aws services. While developing the tool i applied various design patterns which i have learned in college.Internship at Amazon (TRM) has been a lot of learning, tremendous exposure. I appreciate the opportunities and projects that were assigned to me, since the projects I have done had huge Business Impact for TRM. During my internship, I also got to experience first-hand the kind of customer obsession that each and every person working here shows and it gave me a perspective of how great companies are built.	2016-17-sem2

Company	Experience	Year
Amazon Development Center, Hyderabad	I joined Amazon, Hyderabad on 11 January, 2016 as a SDE-Intern. Since the start, I was given a very challenging project on work on where I had to take the ownership of the task all by myself. The project was very important to the team as it was related to the wave of migration which was currently in full swing over Amazon worldwide. The first part involved a thorough research on the problem statement. I was fortunate enough to set up design meetings with the senior members of the team, which helped me understand how a design is decided upon, what all parameters are considered while finalizing a design. The discussions with the team members regarding the design and implementation has provided me a deep insight of object orientation principles. I worked on technologies like AWS Data Pipeline, Dynamo DB, SNS, SQS which are used by most of the companies in some way or the other. So, having a good understanding of these will enable me to mark out my presence among others. PS-2 provides us with the opportunity to implement what we learn in college. It gives us a platform, where we can dive deep to understand how things are working in professional world and make our decisions wisely for our career ahead. However, I would like to highlight one of the main difference between college and the experience at Amazon is that at BITS we never had to worry about scalability, availability, memory management etc. At college the main aim is just to write code which is able to achieve the final outcome. Now, though we realized the importance of a solution that is not just correct but also scalable, efficient and crucially reliable. That's the importance of PS.	2015-16-sem2

Company	Experience	Year
Amazon Development Center, Hyderabad	I was assigned the task of delivering a text validation framework for Amazon brand pages content. The framework demanded incorporation of the functionalities of grammar checking, language detection, html validation, excess bold detection, contact information and url detection. My work started with a deep dive into the possible approaches to satisfy each of the use cases, explore various NLP tools to achieve grammar checking and language detection. After a deep study, I had to compare all the approaches, conclude on the best approach and implement all the functionalities in an efficient way in Java using Google Guice dependency injection framework. The implementation included text preprocessing to enable application of ML based NLP algorithms of POS Tagging, grammar check and language detection. We used open source tools LanguageTool, Cybozu Language Detector and Stanford POS Tagger to achieve the validation goals. Tools used (Development tools - H/w, S/w): Java, Spring MVC, Google Guice. Objectives of the project: Deliver a text validation framework for their brand pages. Outcomes of the project: A validation service was delivered with the following functionalities: grammar checking, language detection, html validation, excess bold detection, contact information and url detection. Major Learning Outcomes: Major learning outcomes were understanding NLP basics, learning the concept of dependency injection, and strengthening OOPs concepts. Brief Description of working environment, expectations from the company: Amazon is a great PS station to develop your technical skills as well as gain exposure to the corporate world. As an intern at Amazon I got to work on an innovative project in which I could develop my problem solving and coding skills. Diving deep into the problem and dealing with ambiguity are two very strong points that are expected from interns and help you learn a lot. Teams in Amazon give you a competitive environment to discover your potential and learn from peers. Technically I have developed my coding skills and problem-solving skills interacting with the senior engineers in my team. Knowing more about Amazon's businesses and leadership principles exposed me to the corporate world. With a wide range of teams and technologies used, Amazon gives an idea of different levels of career and makes you better equipped to make career decisions. Overall internship at Amazon was a great opportunity for technical growth, personality development and exposure to corporate world.	2016-17-sem2

Company	Experience	Year
Amazon Development Center, Hyderabad		2016-17-sem2

Development of a test framework for the Shopping Cart team by mocking downstream services. The Amazon Cart service relies on numerous internal Amazon services for data, which aren't available or are unreliable for testing purposes. This problem was overcome by mocking the responses returned by these services for the purposes of regression testing. The project encompassed the development of a prototype that demonstrated the use of an internal Amazon tool to mock downstream services, the development of a new test package that leveraged this internal tool, and writing tests using this newly created package. This test package and regression tests were developed for the new Cart service that was being developed by Amazon. Tools used (Development tools - H/w, S/w): Java, spring. Objectives of the project: Development of a test package and tests that mocks downstream services for regression testing of the Cart service. Outcomes of the project: The expected outcomes of the project include the automated testing of the new cart service, without being reliant on downstream services. This would speed up development and deployment of software, and reduce ambiguity in terms of the quality of code. Major Learning Outcomes: Major learning outcomes include understanding the software development process at Amazon, the testing process being employed, the business logic and structure of the Amazon Cart service and the development of a new test package. Brief Description of working environment, expectations from the company: The working environment at Amazon is that of independence. The expectations are set by the mentor and manager, and the mentor serves to provide assistance and guidance for making progress. There is a large amount of freedom, in terms of working hours and how you approach your work, as long as the goals are being met. There is zero flexibility to choose a team (which is randomly assigned) ahead of time, and the project is likely to have been decided ahead of time, but you may have the flexibility to choose projects a few months into the internship. You are likely to face steep learning curve, to get comfortable with the myriad of development tools required by a developer. These practices are usually universal among software development at large companies so it serves as a good way to become acquainted with these tools. You may have to put in long hours to finish your work if you are running behind schedule, but for the most part the amount of work you put in is fairly balanced. However, these aspects of the internship can vary wildly from team to team, as the work environment

Company	Experience	Year
	and the nature of work are highly localized to individual teams.	
Amazon Development Center, Hyderabad	My work involved creating a service which collects data related to shipments, like carrier information, seller information, product information, time of shipment, time of delivery etc. This service would act as a one stop data center for shipment related information. I worked on Java and used AWS to complete ths project. It was a pure coding project. The design had bee decided beforehand and only the implementation part was given to me. Tools used (Development tools - H/w, S/w): Java, spring, AWS. Objectives of the project: To create a service which would act as a one stop data center for shipment related information. Outcomes of the project: A service acting as a one stop data center for shipment related information. Major Learning Outcomes: SOLID principles of Object oriented programming, SPRING (beans), AWS. Brief Description of working environment, expectations from the company: Amazon provides a very flexible working hours. There are no compulsory working hours as such. You can walk in and walk out whenever you feel like. The only expectation is that you complete the task you were assigned. If you're hoping for a PPO, make sure you finish the work assigned and ask for more. The more enthusiastic you seem about it, the more your chances are. You won't be spending much time with your manager, but make sure to know what he expects from you (e.g. the timeframe in which he expects you to finish the work etc.) REGULARLY. You also are expected to take ownership of the work you do. Do not hesitate to ask any questions you have. Stay in contact with other teams you have dependency on. Workplace is pretty friendly, and everyone in the company is a workaholic (that's not necessarily a bad thing).	2016-17-sem2
Amazon Development Center, Hyderabad	I worked on two major projects during my PS-2 at Amazon. The first involved implementing server-side throttling in two of the software services built by the team I joined. Server-side throttling is a mechanism by which a web service restricts the number of incoming requests made by clients. The second project involved Amazon SQS (Simple Queue Service). Amazon SQS is used in building asynchronous web services, and the project I worked on involved providing a store, search and retry functionality for SQS messages that failed to get processed. Tools used (Development tools - H/w, S/w): I coded all my projects in Java. In addition, the following tools were used: 1. Simple Queue Service (SQS), a part of the Amazon	2016-17-sem2

Company	Experience	Year
	Web Services (AWS). 2. Mockito/JUnit for testing code. 3. Java's Executor Service for implementing multi-threaded programs. 4. Aurora, a MySQL compatible RDBMS offered by AWS. Objectives of the project: Project 1 - Server Side Throttling. The objective was to limit the number of incoming calls from clients to a web service. I used internal Amazon APIs for implementing this, and these APIs implemented a version of the Token Bucket Algorithm for limiting client calls. Project 2 - Managing Failed Messages in Amazon SQS. Amazon SQS is a system used to send data in the form of messages between various interacting web services. When a message sent to a web service is unable to be processed by that service, it is generally sent to a Dead Letter Queue (DLQ). The objective of this project was to provide an alternative service to the DLQ, one that allows users to store, search and resend messages that were initially unable to get processed. Outcomes of the project: Project 1 - Server side throttling helped control the number of incoming client requests, which helps protect the web service from excessive memory and CPU utilisation. Further, it reduces the load on other web services which this web service depends on. Project 2 - The program that I implemented allows users to search SQS messages that initially failed to get processed and selectively resend SQS messages chosen by the user. Major Learning Outcomes: I learned a lot about writing industry-quality Java code. This includes writing code that is testable, well-organised and thread safe. I further got to work with problems such as downloading and processing large amounts of data as quickly as possible and designing multithreaded Java programs. I also got exposure to Amazon SQS, which is a key component of the Amazon AWS. Brief Description of working environment, expectations from the company: The work environment is really good at Amazon. I got to work with and learn from people who are very strong in coding and other areas of computer science. There is high standard of quality expected from any technical project done. Any code or design you implement will be closely reviewed by your team. However, one drawback is that most of the work involves Java based software development, and opportunities to work in more research related areas such as data science, AI etc, are less.	

Company	Experience	Year
Amazon Development Center, Hyderabad	Regression Testing Automation of Marketplace Metadata. Objectives of the project: Regression is the testing process to validate metadata changes which needs to be ported on to a platform. Outcomes of the project: Software development including design, coding, testing and reviewing. Also integration of some AWS services such as S3, DynamoDB and SWF. Major Learning Outcomes: Software development including design, coding, testing, reviewing, etc. Also integration of some AWS services such as S3, DynamoDB and SWF. Brief Description of working environment, expectations from the company: Working environment is good. A mentor is assigned to you at the start of the internship who guides you throughout. They expect good development skills (design principles, coding, testing and documentation) and good knowledge of DSA and OOP.	2016-17-sem2

Company	Experience	Year
Amazon Development Center, Hyderabad	The project entailed re-architecting the Your Orders page at amazon.com to incorporate details specific to my team, Value Added Services. It involved full stack web development, since the changes needed to be incorporated in both, back-end as well as front-end. Tools used (Development tools - H/w, S/w): (S/w) Java, JS/CSS, JSP, spring Framework. Objectives of the project: The objective of the project was to provide a seamless experience for services, as already exists for products at Amazon. Outcomes of the project: The outcome was a new web page for services. I created the base web page, and it can be improved upon further by the team easily. Major Learning Outcomes: I learnt about how the flow of completing a service differs from that of a product delivery. I also learnt how to apply core CS principles to produce extensible and modular code. I gained insight about various technologies such as the spring framework, and testing frameworks such as JUnit and Mockito. Brief Description of working environment, expectations from the company: The culture at amazon is such that it helps you to develop and sharpen your technical skills by learning from your peers. There are regular brain storming session for design problems where you gain a lot of knowledge. Weekly Friday learning series sessions by peer members of the team help in being up to date about the happenings in your team and share knowledge. My manager and mentor were always very helpful in guiding me to the right point of contact for every problem. As far as the expectations are concerned, at Amazon, you are expected to raise the bar regarding every aspect of your work. Moreover, there is a great focus on the principle of ownership. You are expected to 'own' your code, you are expected to take initiatives to improve it, you are expected to test it and you alone are responsible for the success or failure of it. You are expected to do this because you 'own' it and not because your manager or any other person told you to do so. So the work environment is especially great for developers who are starting out, and wish to hone their skills as it gives exposure to end-to-end software development.	2016-17-sem2
Amazon Development Center, Hyderabad	My project was to design and implement an user-interface for an internal service. I first created a few mock-ups for the design of the UI. Some time was spent in doing POCs (proof-of-concept) for the libraries and tools to be used. Then, I started the development of the user-interface. Using a Javascript library (vis.js), I was required to draw a tree-like structure for a platform definition which would be input to	2016-17-sem2

Company	Experience	Year
	the UI in the form of a JSON file. Angular2 framework was used for client-side rendering of data. A table supporting add, update, delete functionalities was added using Angular2. Some manipulations were required with the data to give the user the required view. Then, I setup a NodeJS server to serve the UI. I used webpack as a bundler which handles dependencies and the order of imports for the modules on which our application depends. Gulp was the task runner used to handle build and other tasks. Some time was spent on styling and making the UI look clean. Bootstrap was used for styling, and some other libraries were also used to add some more features like a tooltip, toaster, modal, etc. Next, I added authentication and authorization for the UI as the access was required to be restricted. Finally, I deployed my code using Amazon specific tools. Tools used (Development tools - H/w, S/w): Software Development: HTML, CSS, Javascript, Angular2, NodeJS. Objectives of the project: The objective of the project was to show the platform for a service in the form of a tree. The nodes and edges of the tree would show the dependencies of the platform. If the platform has any issues, a user can look at the tree and can easily find out the cause of error. The aim was to give a quick visualization to the user so that the time to find the issue would get reduced. Outcomes of the project: The user-interface was designed and implemented to satisfy the requirements. It looked clean and user-friendly. Using the UI, the time to resolve tickets (issues) by developers would be reduced. Also, the number of issues coming up would reduce. Major Learning Outcomes: I was new to UI development. So, the learning curve was steep for me. I learnt about the latest technologies and tools used for UI developement. With an excellent guidance, I was able to meet my goals. I learnt the importance of following the best practices when writing code. I also learnt to always consider scale at which your service is going to operate when developing it. Brief Description of working environment, expectations from the company: The work culture in my team and at Amazon in general is very good. All my teammates were very helpful. Whenever I faced an issue, I tried to solve it first, trying to look into different possibilities. But if I was unable to fix it even after that, my mentor and other teammates helped me. The work given to me was neither too less or too much. I was able to deliver the results in a timely manner. Overall, Amazon is a great place to work and my PS II experience was excellent.	

Company	Experience	Year
Amazon Development Center, Hyderabad	Developing pages for amazon. Tools used (Development tools - H/w, S/w): Amazon internal tools. Objectives of the project: Develop page. Outcomes of the project: Page successfully developed. Major Learning Outcomes: Amazon infrastructure. Brief Description of working environment, expectations from the company: Delivering results.	2016-17-sem2
Amazon Development Center, Hyderabad	Made a logical layer over an existing internal tool to cater to general and specific use cases for managers and staff managers. The layer is generic and can be applied to all teams Tools used (Development tools - H/w, S/w): Amazon internal tools. Objectives of the project: To make a simple issue manager reporting tool. Outcomes of the project: A simple issue manager reporting tool. Major Learning Outcomes: How the existing tool worked. It's strengths and weaknesses. Brief Description of working environment, expectations from the company: Very good competitive hard working environments.	2016-17-sem2
Amazon Development Center, Hyderabad	Project1: Sending repair status emails for repair in progess and repair shipped back to customer statuses. Implemented back end logic for when to deciding when to send emails, collecting data needed to populate email, creating html template for these emails. Project2: Validating encrypted repair status XML files received from vendors regularly. Validation included incorrect encryption, parsing failures and data constraint violations. Achieved using xsd validation. Tools used (Development tools - H/w, S/w): Eclipse/Intellij for Java development, JAVA 8, Apache freemarker for email template. Objectives of the project: Project1: To send repair status emails to Customers. Project2: XML file validator used by vendors in validating repair status XML files. Outcomes of the project: Work in production. Major Learning Outcomes: Designing Problems, writing quality code which is easily testable, stay updated with latest technologies. Brief Description of working environment, expectations from the company: Company's expectations: continuous improvement in quality of code.	2016-17-sem2

Company	Experience	Year
Amazon Development Center, Hyderabad	Amazon detail page feature enhancement. Web UI development and loading latency improvement. Tools used (Development tools - H/w, S/w): IntelliJ. Objectives of the project: To refactor the existing code to improve the customer experience in terms of UI and back-end processing. Outcomes of the project: Effective UI and smooth operations of the feature. Major Learning Outcomes: Ownership, Bias for action, Deep dive. Brief Description of working environment, expectations from the company: Work culture is very good in terms of learning and overall development.	2016-17-sem2
Amazon Development Center, Hyderabad	Wrote static and machine learning based rules to detect people asking for false concessions (Abusive customers), based on their past history. And then put more friction on issuing concessions to them. Tools used (Development tools - H/w, S/w): Java, spring, Dynamo DB, ElasticSearch Data Exchange. Objectives of the project: Reducing concessions offered to customers and saving on concessions. Outcomes of the project: Launched the project and it had a huge customer concessions saving. Major Learning Outcomes: Machine Learning, spring. Brief Description of working environment, expectations from the company: Nice working environment, good amount of learning.	2016-17-sem2
Amazon Fulfillment Center, Bangalore	Identified various improvement opportunities and implemented solution for warehousing process. Served as a Site Lead for new upcoming site. Tools used (Development tools - H/w, S/w): Excel/Macro. Objectives of the project: 1.Tote Overflow Analysis. 2. SIOC Analysis. 3. Reporting Improvements. 4. Leading operations in new warehouse. Outcomes of the project: Cost Saving, productivity improvements, stabilizing of operations in new warehouse. Major Learning Outcomes: Better Communication Skills, better leadership skill, better peoples management. Brief Description of working environment, expectations from the company: You will have to work out of warehouse. Environment completely different form regular corporate environment. Long standing hours (Upto 10hrs/day). Harsh working conditions. But one gets accustomed to it after sometime. Best place to develop yourself as a leader. There are very few companies that give managerial role to an intern. Best place to develop yourself as a responsible leader.	2016-17-sem2

Company	Experience	Year
Amazon Fulfillment Center, Bangalore	My work during the practice school was an integral part of the fulfilment center in which I was working. I was given the project to improve productivity of the site and was also given the responsibility of handling the shift as an area manager. I was no less than an employee and had as much right as an any other employee. I worked on MS Excel as part of my project and made templates for the site which will improve productivity. I did research on individuals and rated their performance. Based on my templates and research, the individuals were selected for each function. I was also a major part of the Great Indian Sale and handled one of the major functions of Operations during that time while also handling all the operations during normal days. I was also incharge of some of the layout changes of the site. Tools used (Development tools - H/w, S/w): MS Excel, MS powerpoint, Amazon internal tools (S/w) Objectives of the project: To improve the productivity of the site. Outcomes of the project: The productivity of the site was improved. Major Learning Outcomes: As measured by Amazon internal server, the site productivity was improved as was individual performances. The site had a great sale and layout was also made as per Amazon standard. Brief Description of working environment, expectations from the company: Operations is a very busy world and you might not be able to finish any task in the time that you are given. Time management skills are very important to thrive in this world. We need to be fast and agile. We should always have a plan ready for the day and should try to finish our tasks well in time. When pressure builds, the operations manager loses their cool at times and the environment is not good at those times. It all depends on the team and the manager. If both are strong, the working environment is very good and if either of them is not, it becomes very tough to work at times. But sale times, even though very busy, are very exciting and nothing can match those. Leaves and outings are not that much. It is very busy and very tiring. At times, you have to work on project and handle shift, which becomes very tough. But people are very helpful and will go out of their way to help you. Learning opportunities are immense. But you will have to not only work in night shifts but also juggle between day and night every two weeks. Although it sounds scary but night shifts are the best and most of the work is done in night shift. Get your work done and no one will question you.	2016-17-sem2

Company	Experience	Year
Amazon Fulfillment Center, Bangalore	My projects were mainly related to the following two areas: 1. Improvement in Throughput: To bring about process improvements or additions so as to increase productivity. Time motion study of existing and suggested methods coupled with data analysis using Microsoft Excel was done to quantify improvements. 2. Improvement analysis of the metrics on benchmarking website, that provides visibility of various process values. Tools used (Development tools - H/w, S/w): Microsoft Excel. Objectives of the project: Productivity Improvement. Outcomes of the project: Increase in productivity with respect to certain processes. Major Learning Outcomes: Experience in analysis and breakdown of complex problems, data processing and presentation skills improved. Brief Description of working environment, expectations from the company: Five working days per week with around eleven hours of office per day is quite hectic. Cab pickups and drops make commuting very convenient. Interns are given sufficient authority to bring about actual improvements. The firm expects dynamic and efficient people to deal with the constant and heavy work pressure.	2016-17-sem2
Amazon Fulfillment Center, Bangalore	My project was to increase the throughput per hour of the building. Tools used (Development tools - H/w, S/w): Excel. Objectives of the project: Increase the overall output of the building. Outcomes of the project: Increased the overall output of the building. Major Learning Outcomes: People-Handling, Stress - Handling, Multi-Tasking. Brief Description of working environment, expectations from the company: Company provides an excellent opportunity to develop people handling skills, multi-tasking and learn how to work under immense pressure.	2016-17-sem2
Amazon Operations (Area Manager) , Bangalore		2018-19-sem2

Company	Experience	Year
Amazon Operations (Area Manager) , Bangalore	The work involved managing timelines for different projects. I was involved in one of the Prime Now expansion (modification) site. This involved preparing and managing timelines to reach required goals of the project. Other projects were much more involved in learning of the current facilities and what could be improved about those. Tool used (Development tools - H/w, S/w) : Basic Excel tools, Amazon's internal project management tool Objectives of the project : To make checklist for site work, to reach at a BOQ for a type of site, managing different teams at site for project Major Learning Outcomes : Site work gives opportunity to apply the concepts we learned in college in real world. Details of Papers/patents : None Brief Description of working environment, expectations from the company : - Academic courses relevant to the project : CPT (Construction, Planning and Tech CEF242), Steel Design, Soil Mechanics, Foundation engineering, Reinforced concrete structures, LEAN manufacturing	2018-19-sem2
Amazon Operations (Area Manager) , Gurgaon		2018-19-sem2

Company	Experience	Year
Amazon Operations (Area Manager) , Gurgaon	I have managed shifts in Outbound department in Amazon FC DEL2 in Gurgaon, shipping an average of 15,000 customer shipments a shift and a maximum of 30,000 a shift. I have worked on a project for improving the overall productivity by 7% by redesigning pack stations where customer orders are packed. I have also worked on multiple Excel tools for tracking errors by Associates to avoid tarnished customer experience, determination of support hour deployment as per volumes processed and so on. Tool used (Development tools - H/w, S/w) : SQL, Advanced Excel Objectives of the project : To improve pack productivity by 14 Units per hour and overall productivity by 2.5 throughout per man hour. Major Learning Outcomes : Manpower Management, Understanding how E-Commerce companies deliver efficiently, software/languages like Excel and SQL Details of Papers/patents : None Brief Description of working environment, expectations from the company : As an Area Manager Intern you generally have a team of undergraduates from lower ranked colleges working under you and you may be managing a team of over 100+ Associates, Problem Solvers and Process Assistants. The first month is spent understanding the technicalities of work and learning by doing tasks yourself. The team is generally supportive, however expectations in terms of work load will vary depending on the site. Daily work is not very brain racking and is entirely related to effective manpower management. However the project can offer learning opportunities if selected well. There is also a very good PPO opportunity at the end. Academic courses relevant to the project : Manufacturing Management/Production Planning and Control, Lean Manufacturing	2018-19-sem2
Amazon Operations (Area Manager) , Mumbai		2018-19-sem2

Company	Experience	Year
Amazon Operations (Area Manager) , Mumbai	Worked with the Projects team, which is responsible for site setup of various buildings. Worked on developing a tool to analyze the project health during the progress of the site. Then worked on procurement of items required for various projects. Figured out issues with the process and helped cut down the budgets and developed an SOP. Finally handled a medium delivery station project completely from end-toend. Assisted in a lot of other bigger sites in handling support functions. Tool used (Development tools - H/w, S/w) : Excel VBA Macros Objectives of the project : To analyse health of ongoing projects Major Learning Outcomes : Learned about the complete supply chain, learned making macros, basics of site setup and managing resources Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : CP	2018-19-sem2
Amazon Operations, Mumbai	Amazon Fulfilment Center, Mumbai was assigned to me as my PS-II center. The Fulfilment Center (FC) mostly deals with the Operations aspect of the Amazon Online E-commerce Business. It's like a middle mile between the customer and website. The customer orders are assigned to a specific FC in regards to the shipping and transport cost of the product. After that, FC is responsible for the fulfilment of that order. There are two major depts. In FC – Inbound and Outbound. Inbound handles the receiving of the inventory and stowing them inside the FC. Outbound handles the picking, packing and shipping of the orders that are attached to that particular FC. I was allocated outbound dept. The projects which I worked on, dealt with improving the productivity and quality of the outbound processes. My project involved meeting the target standards for Box Compliance and also improving the Associate Packing Rates by taking appropriate measures and changing the design of pack station. These were the two major operations projects I worked on during my PS-II. Additionally, I worked on many Advanced Excel Macros in order to automate the existing manual process which were time consuming and needed a better and organized working system. Tools used (Development tools - H/w, S/w): Advanced Excel Macros (VBA). Objectives of the project: Improving the productivity and quality of processes. Outcomes of the project: The projects were successful in terms of the set targets keeping in view the benchmark standards also being followed. Major Learning Outcomes: Management Skills in Operations, Data Analytics. Brief Description of working environment, expectations from the company: PS-II in	2016-17-sem2

Company	Experience	Year
	Amazon Fulfilment Center (FC) is a great experience for those who are interested in Operations Profile. The interns get in at the designation of Area Manager. The working environment inside Amazon FC is totally different from that of corporate offices. There is a shift concept – day and night. The shift lasts 10 hours and all the Area Managers have to be there half hour before the start of the shift and stay half hour after the end of the shift. The shift timings vary from FC to FC. There are many FCs spread all over India. The FC which I worked in, BOM4, had its shift timings as 09:30 to 19:30. Also, FC, being located in outskirts of the main city, cab facility is provided by Amazon for the managers. There is a lot to learn in terms of man-management skills, process improvement techniques and data analytics. An Intern is mostly expected to work on projects and change and improve the existing processes. Advanced Excel Macros (VBA) prove to be a powerful tool for data analytics in operations and they help to reduce a lot of manual labor involved in the system by automating the processes. Overall, the PS-II center is recommended for those who have immense interest in Operations profile. As the profile develops people connection skills and man management techniques, it can prove quite useful further ahead in career growth and development.	
Amazon Operations, Mumbai	I got to work on a few projects at my station majorly aimed at improving the quality and productivity of the inbound operations at my fulfillment center. The internship is for area manager profile, so majority of my internship work revolved around that. Being from software background, I also completed some projects on automation of data generation, involving use of VBA and MySQL. Tools used (Development tools - H/w, S/w): MS Excel, MySQL. Objectives of the project: To improve pick productivity and bin utilization by allocating designated spaces for each category in the inventory (Mall concept). Outcomes of the project: Design plan for the same given and implementation started. Improvement in bin etiquette and reduction in consolidation opportunities. Major Learning Outcomes: 1. Advanced Excel. 2. VBA 3. Leadership principles Brief Description of working environment, expectations from the company: Most of the work involved here would revolve around management and operations, so prefer this only if you have interest in these fields. There is major scope of project work to be undertaken here and good work will be recognised and implemented immediately.	2016-17-sem2

Company	Experience	Year
Amazon Professional Services , Bangalore		2019-20-sem2
Amazon Professional Services , Bangalore	Security access to all the resources on aws cloud is managed through policies. Often these policies grant excess rights to the user which is a big security concern. My project aimed to create a service which automates the process of minimisation of access rights. Second project was aimed at contributing to AWS open source libraries where we had to make automation documents which automate the remidiation of non-compliant resources in an organisation. Third project was engagement in a migration of large scale real asset service provider's onprem infrastructure to cloud. Tool used (Development tools - H/w, S/w) : AWS SERVICES (IAM, S3, Lambda, Glue, Cloudformation, Aurora) BOTO3 Python Objectives of the project : Automation of minimisation of policies Major Learning Outcomes : Cloud infrastructure and services Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Computer Networks	2019-20-sem2
Amazon Professional Services , Bangalore	The work involved was targetted at developing automation tools for various use cases within AWS. The tools were developed by using native AWS services in tandem with external resources. Tool used (Development tools - H/w, S/w) : AWS Services, Python Objectives of the project : Develop Automation Tools using AWS services and in the process gain familiarity with AWS and it's services. Major Learning Outcomes : Knowledge regarding AWS services, Automation, Tools for Relevant use cases Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Computer Programming, Data Structures and Algorithms	2019-20-sem2

Company	Experience	Year
Amazon Professional Services , Bangalore	Built an end-to-end system to generate Lex chatbots to answer questions about the information in a given set of web pages. The system allows a user to input URLs of web pages or upload text documents into the system, the web pages are scraped for relevant text data which is normalised and preprocessed. The system then generates QnA from the prepocessed text and indexes the QnA into an Elasticsearch domain. Meanwhile, the system also builds and configures a Lex chatbot with corresponding intents and utterances to handle conversation with a user asking questions about all of the topics corresponding to the given web pages.The system provides a frontend for the user to chat with the chatbot. When the user asks the chatbot a question on a topic, the most relevant answer to it is fetched from the Elasticsearch domain and presented to the user, who can choose to continue QnA operation for as long as he likes before exiting. Tool used (Development tools - H/w, S/w) : AWS services - such as AWS Lambda, Amazon Lex, Amazon Elasticsearch, AWS S3, SAM. Natural Language Processing - spaCy library, python-boilerpipe Objectives of the project : To build a dynamic chatbot system with Amazon Lex which can read and understand the unstructured data content from any given document set, create the intents and utterances programmatically, and answer user queries at application run-time using a natural Major Learning Outcomes : Working on the project has given me a thorough understanding of several AWS services - such as AWS Lambda, Amazon Lex, Amazon Elasticsearch, AWS S3, IAM, Cognito, API Gateway, SAM - as well as a good practical understanding of natural language processing Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Information Retrieval	2019-20-sem2

Company	Experience	Year
Amazon Professional Services , Bangalore	The goal of the project was to help customers optimize their cost on AWS services. To accomplish this, I developed a data pipeline that can process large amounts (potentially 30-40 GB) of data. The data pipeline took inputs from billing data, utilization metrics data and custom sources and combined them to give a holistic picture of usage vs cost. The pipeline also used an existing powerful search and visualization tool to help the customer explore the data graphically. Tool used (Development tools - H/w, S/w) : AWS Glue, AWS S3, AWS Elasticsearch, AWS Lambda, Cloudformation, PySpark Objectives of the project : Develop a data pipeline for optimizting cost Major Learning Outcomes : - Learning the AWS infrastructure and how different services interact in the ecosystem - Learning the best practices of designing serverless architectures - Using big data tools - Understanding real world problems faced by customers Details of Papers/patents : Brief Description of working environment, expectations from the company : The work environment was comfortable and conducive to learning and exploration. My colleagues were experienced, knowledgeable and always available for help. The projects were well defined, with clear goals and end user applications. The company's expectation from interns was to learn in broad strokes and understand the culture of the company. Academic courses relevant to the project : Information Retrieval, Data Structures and Algorithms, Computer Networks	2019-20-sem2
American Express - Big Data Labs (BDL) , Bangalore		2018-19-sem2

Company	Experience	Year
American Express - Big Data Labs (BDL) , Bangalore	Worked on the XGBoost algorithm. Analysed existing boosting algorithms and their differences.Worked on the distributed XGBoost algorithm and improved the working of approximate algorithm. Analysed the weighted quantile sketch algorithm both mathematically and in code. Optimised existing features and added new features requested by modelling teams to the XGBoost algorithm. Tool used (Development tools - H/w, S/w) : C++, Shell scripting, Python Objectives of the project : Optimize existing features in axgboost and add new features requested by modeling teams Major Learning Outcomes : Learnt how to read through a research paper and the mathematics behind it. Understanding a large open source codebase and fixing and adding new features to it. Concepts of object oriented programming used extensively. Also, learnt about the software development lifecycle. Details of Papers/patents : - Brief Description of working environment, expectations from the company : Work environment is good. All the team members are quite helpful. Also, the working hours are flexible. Along with completing the given task, it is important to understand the concepts applied in doing that task, be it coding or understanding a research paper. Academic courses relevant to the project : Machine Learning, Parallel Computing, Data Structures and Algorithms, Object Oriented Programming, Probability and Statistics	2018-19-sem2

Company	Experience	Year
American Express - Big Data Labs (BDL) , Bangalore	1. A Sub Intent Classifier is built using a 3-stage pipeline (including data labelling, training a classifier on manually annotated data and building/training the final classifier using the huge labelled data provided by applying the previous classifier on unlabelled data). 2. A clustering technique is developed (involving LSSVM) that could capture the context beyond singleton utterances. 3. A filter is developed for intelligently selecting utterances for manual labelling i.e. building a system to select utterances from chats which could be helpful for the task of sub-intent detection. Tool used (Development tools - H/w, S/w) : Python, Sklearn, Spacy, CoreNLP, Keras Objectives of the project : The project aims at utilising the existing customer care chat data, natural language processing tools as well as latest text classification and clustering techniques for introducing sub-intent (finer intent) detection feature in Amex Bot (American Express customer care chatbot service). Major Learning Outcomes : 1. Dealing with real world domain-specific data. 2. Overcoming the problem of absence of labelled data. 3. Utilising latest Natural Language Processing tools and libraries like Spacy, CoreNLP etc. 4. Dealing with various clustering and classification techniques and understanding their application on text (chat) data. 5. Dealing with deep learning models, parameter optimisations, and training techniques. 6. Dealing with pattern extraction techniques using Regex based on Part-Of-Speech Tags and Dependencies. Details of Papers/patents : Brief Description of working environment, expectations from the company : The work environment is pretty good at Amex. The projects are challenging, timings are flexible, and people are ready to help whenever you are stuck. Academic courses relevant to the project : Machine Learning, Neural Networks and Fuzzy Logic, Information Retrieval, Deep Learning	2018-19-sem2
American Express - Big Data Labs (BDL) , Bangalore		2019-20-sem2

Company	Experience	Year
American Express - Big Data Labs (BDL) , Bangalore	I did work related to Unstructured Document Analysis and Question Answering. Basically, for any NLP task on documents, the first step is to get some representation of it and apply task specific models on it. This representation should be structured (unlike raw documents) to be consumable for algorithms. So, my task was to convert documents into a structured format (jsons) preserving layout and content. i used different heuristics and instance segmentation for the same. Next project was to perform Question Answering on Financial Statements. The problem statement was to answer questions based on a given paragraph. So, in this financial documents were first converted into jsons. Next, I generated a dataset of of questions and answers from FS and trained reading comprehension models on the same. Tool used (Development tools - H/w, S/w) : H/w: Linux, Nvidia GPUs (single and cluster) S/w: python, pytorch, tensorflow, keras JavaScript Objectives of the project : Convert raw documents (Unstructured) into structured representations. Automate the task of answering questions posed by analysts in financial domain. Major Learning Outcomes : Natural Language Processing, Natural Language Understanding, Computer Vision Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Machine Learning Neural Networks and Fuzzy Logic Information Retrieval Data Mining	2019-20-sem2

Company	Experience	Year
American Express - Big Data Labs (BDL) , Bangalore	Worked on adding features to a machine learning algorithm. Work required going through research papers and understanding new concepts and then applying them in the algorithm. Mix of software development and machine learning. Also worked on business aspect of explaining the features to business stakeholders in terms of business metrics and need for the features. Tool used (Development tools - H/w, S/w) : Jira, Stash, Spark, Jupyter, C++, Python Objectives of the project : Add new features to machine learning algorithm. Benchmark multiple algorithms. Research into the explainability of machine learning models Major Learning Outcomes : Understanding a huge code base. Thinking of design before code. Reading and understanding multiple research papers. Working in a team. Using tools like stash,git. Understanding how to apply researched features to business problems. Details of Papers/patents : Brief Description of working environment, expectations from the company : Great working environment. Freedom to work at own timings. Responsibility comes with the freedom. Great supportive team to work with. Growing team. Lots to learn. And very friendly and knowledgeable team. Company also growing in Bangalore location. New projects keep coming in. Working in the latest and the most sought after fields in AI research. Academic courses relevant to the project : Machine Learning, OOP, Data Science, Computer Programming, DSA	2019-20-sem2
American Express - Capabilities EDA , Gurgaon	Brief write-up on PS-II station : American Express, also known as Amex is an American multinational financial services corporation headquartered in New York. The organization is best known for its credit card, charge card, and traveller's cheque businesses. Amex offers internship in various business units including Amex Technologies, Amex Big data labs and Amex capabilities. Students are exposed to project assignments based on predictive modelling, Modernizing the internal risk platforms, automation by designing and implementing web applications. Technology stack includes MySql, Hive, python, PySpark, and React etc. Organizations prefer students who have done courses like Artificial Intelligence, Machine Learning, and Deep Learning and have good hands on experience on python. Additionally, they prefer interns who are good researchers, eager to learn new stuff, open to work on different technologies and have excellent communication skills.	2019-20-sem2

Company	Experience	Year
American Express - Capabilities EDA , Gurgaon	Full stack project involving information retrieval, and creating a tool that reduces the manual workload of analysts by automatically recognising patterns within a dataset Tool used (Development tools - H/w, S/w) : Python3, Node JS, HTML, CSS, JavaScript Objectives of the project : Full stack project involving information retrieval, and creating a tool that reduces the manual workload of analysts by automatically recognising patterns within a dataset Major Learning Outcomes : Business terms and analytical terms and their practical meanings Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Data Mining	2019-20-sem2
American Express - Capabilities EDA , Gurgaon	Automation of Multiple process in the team. Firstly , the Non AD Measurement automation with master input file and final output appended to the input which is 9 times faster than the prior process. Next , automation of SAC process in python by converting all the process which were before done in three different platforms with and efficiency of 18 times faster process. Tool used (Development tools - H/w, S/w) : SAS Enterprise, Python 3, MLS Studio,Pyspark,Pandas, Winscp, Putty and Bokeh Objectives of the project : Automation of the process for error free and effective method Major Learning Outcomes : Data Extraction,Manipulation and data visualization Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Database management systems and datascience	2019-20-sem2

Company	Experience	Year
American Express - Machine Learning & Artificial	Intelligence , Gurgaon Brief write-up on PS-II station : American Express, also known as Amex is an American multinational financial services corporation headquartered in New York. The organization is best known for its credit card, charge card, and traveller's cheque businesses. Amex offers internship in various business units including Amex Technologies, Amex Big data labs and Amex capabilities. Students are exposed to project assignments based on predictive modelling, Modernizing the internal risk platforms, automation by designing and implementing web applications. Technology stack includes MySql, Hive, python, PySpark, and React etc. Organizations prefer students who have done courses like Artificial Intelligence, Machine Learning, and Deep Learning and have good hands on experience on python. Additionally, they prefer interns who are good researchers, eager to learn new stuff, open to work on different technologies and have excellent communication skills.	2019-20-sem2
American Express - Machine Learning & Artificial	Used various algorithms to further business level predictions on spend by customers on their credit carda. Classification and regression algorithms were used. Recursive and greedy approaches along with divide and cobquer for enhancing predictions based on e semble trees and boosting random forests. Tool used (Development tools - H/w, S/w) : Python, hive, mls. Objectives of the project : Predict incremental spend and average daily balance for small open to open us customers Major Learning Outcomes : Machine learning and modelling Details of Papers/patents : Brief Description of working environment, expectations from the company : Very great work environment. Treats interns at par with employees. Academic courses relevant to the project : Machine learning, NNFL, DBMS, fundamentals of data science	2019-20-sem2
American Express - Technology , Bangalore		2019-20-sem2

Company	Experience	Year
American Express - Technology , Bangalore	Developed a staffing solution portal using One App, a React JS framework of Amex. Also had to develop and demonstrate an end to end designed Big data pipeline involving Spark Structured Streaming. Tool used (Development tools - H/w, S/w) : React JS, Java , Python, Kafka, Spark, Hadoop, PostgreSQL, Couchbase Objectives of the project : To develop a staffing solution portal and to demonstrate the end to end Big Data pipeline for real time transactional data analytics and visualisation. Major Learning Outcomes : Got to learn about react JS and system design behind a portal of an organization. Got to learn comprehensively about Big Data ecosystem Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : CS F213, CS F211, CS F320	2019-20-sem2
American Express - Technology , Gurgaon	Brief write-up on PS-II station : American Express, also known as Amex is an American multinational financial services corporation headquartered in New York. The organization is best known for its credit card, charge card, and traveller's cheque businesses. Amex offers internship in various business units including Amex Technologies, Amex Big data labs and Amex capabilities. Students are exposed to project assignments based on predictive modelling, Modernizing the internal risk platforms, automation by designing and implementing web applications. Technology stack includes MySql, Hive, python, PySpark, and React etc. Organizations prefer students who have done courses like Artificial Intelligence, Machine Learning, and Deep Learning and have good hands on experience on python. Additionally, they prefer interns who are good researchers, eager to learn new stuff, open to work on different technologies and have excellent communication skills.	2019-20-sem2

Company	Experience	Year
American Express - Technology , Gurgaon	My first project is changing the companies invoice application code from .NET framework to AMEX framework which increases the UX of the web application. My second project is creating a Content Management System which helps in maintaining the other applications static code which helps in changing static data using our service without redeploying their code. Tool used (Development tools - H/w, S/w) : React js, spring Objectives of the project : Improving the companies UX of all the applications and making DEV-OPS to change their applications static data with ease. Major Learning Outcomes : Ability to work with large codes, how to update code from one frame work to other. Details of Papers/patents : None Brief Description of working environment, expectations from the company : Healthy environment filled with passionate people trying to solve the most challenging technical problems Academic courses relevant to the project : None	2019-20-sem2
American Express - Technology , Gurgaon	There were 2 projects assigned during this internship. First project was migrating a .NET application to NodeJs application. For this application I used ReactJs for front end development and Spring boot for backend development. The application is a self-service tool for suppliers to help them upload their invoices and get it processed by AMEX GSM operation team. Second project was Language Resource Service. Tool used (Development tools - H/w, S/w) : IntelliJ idea, Webstorm, Git, Jenkins, XLR, ECP. Objectives of the project : To reduce the release time for an application and make it faster and simple. Major Learning Outcomes : Learnt about the web development and what all things needs to be done for taking a product to production. I also understood about how deployment works. Details of Papers/patents : Nil Brief Description of working environment, expectations from the company : Working environment is pretty good here at Amex. Th projects are challenging, timings are flexible. All the team members are helpful. Environment is pretty interactive and to you can ask for help even outside the team, also you have the liberty to suggest your own ideas Academic courses relevant to the project : DBS, Programming	2019-20-sem2
American Express India-Risk Information ManagementCapabilities(RIM-C) , Gurgaon		2018-19-sem2

Company	Experience	Year
American Express India-Risk Information ManagementCapabilities(RIM-C) , Gurgaon	Built a natural language processing system for better conversational experience Tool used (Development tools - H/w, S/w) : S/w : Python, ML, Hive Objectives of the project : To deliver a smarter grammar model Major Learning Outcomes : Python, data analysis, Machine learning Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project :	2018-19-sem2
AmericanExpress-RiskInformation-ManagementCapabilities(RIM-C) , Bangalore	Student	2018-19-sem2
AmericanExpress-RiskInformation-ManagementCapabilities(RIM-C) , Bangalore	Worked on various American Express Credit Risk Model implementation on actual customer data Tool used (Development tools - H/w, S/w) : S/w-PySpark, Hadoop Objectives of the project : To create repositories of various credit risk models Major Learning Outcomes : Internal American Express Risk Models Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : DSA, DBMS	2018-19-sem2
AmericanExpress-RiskInformation-ManagementCapabilities(RIM-C) , Bangalore	Default Detection Systems Tool used (Development tools - H/w, S/w) : S/w-Hive, PySpark, Hadoop Objectives of the project : Create repositories for default detection Major Learning Outcomes : Default detection schemes and implementation algorithmically Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : DSA, OOP	2018-19-sem2
Analog Devices India Pvt. Ltd. , Bangalore		2018-19-sem2

Company	Experience	Year
Analog Devices India Pvt. Ltd. , Bangalore	I worked on Post Silicon Validation on ADI Evaluation Boards. The Validated Board features include communication protocols like I2S, I2C, LED Dimming and blinking feature using Pulse Width Modulation(PWM), GPIO over Distance and few Customer Use cases of Audio Routing. Tool used (Development tools - H/w, S/w) : Sigma Studio and Cross Core Embedded Studio Objectives of the project : To perform Post Silicon Validation on ADI Evaluation Boards so as to find and fix bugs ensuring correct functionality before releasing the product into the market. Major Learning Outcomes : Reading the data sheet and Board Schematics, Debugging skills, hands on experience on Communication protocols, proper usage of Oscilloscopes. Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment was very healthy and encouraging to improvise. The expectation was the learn and understand the company product quickly and to validate all the possible cases so as to find bugs and to fix them. Academic courses relevant to the project : Embedded system design(because of communication protocols)and rest is specific to the organisation.	2018-19-sem2
Apple India Pvt Limited , Hyderabad		2018-19-sem2

Company	Experience	Year
Apple India Pvt Limited , Hyderabad	Worked on forecasting Application which is part of the Apple sales CRM. The application is used by sales partners for forecasting sales in a territory on a quarterly and weekly basis. The application gives a forecast summary in which the forecasted values are calculated by using historical trends.Configured the application for onboarding new Route to Markets. Automated the data aggregation process for populating the database used for forecasting.Proposed a UI based solution for separating the existing modules. Designed a Web UI for the existing version of the application. Used time series on existing data to add exploratory features in the latest application.The proposed changes will help save a lot of time and ease the whole onboarding process to a great extent. Added features like simulation and recovery from lost rules for new rule creation during forecasting. Tool used (Development tools - H/w, S/w) : Spring Boot, AngularJS, REST , Postgresql Objectives of the project : Scalability of the Application to increase client base Major Learning Outcomes : Enterprise level software development, development lifecycle. Worked with various technologies used industry wide. Working as a part of global team with members of the team residing in various geographical locations. Apple culture and people at Apple. Details of Papers/patents : Brief Description of working environment, expectations from the company : Friendly environment with very helpful co-workers. Enough flexibility is given to explore and try new areas. Every idea proposed is considered. Platform for innovation. One can expect a very supportive environment and an opportunity to work on leading technologies which are used industry wide. Real life problems to solve with a lot of learning involved. Exposure to a global team and understanding how a global team works. Almost all teams are spread across the globe. Regular events to keep the work life fun. Overall skill development which includes soft skills as well. Academic courses relevant to the project : OOP	2018-19-sem2
Apple India Pvt Limited , Hyderabad		2019-20-sem2

Company	Experience	Year
Apple India Pvt Limited , Hyderabad	The work involved web development and iOS development including both frontend and backend, involved technologies such as Angular , Node.JS , MongoDB , Swift , OpenCV work involved experimenting with lot of technologies. Tool used (Development tools - H/w, S/w) : CreateML, Postman , Xcode Objectives of the project : The Objective of the project was to create a dashboard for tracking the status of various test cases for different labs across India and some other projects involved preparing prototypes for some iOS apps Major Learning Outcomes : Software development life cycle , team work Details of Papers/patents : Brief Description of working environment, expectations from the company : The work hours are flexible given that you complete the tasks , team is small and bonds well and everyone is ready to help , PPO depends on the openings and the team you are allotted Academic courses relevant to the project : Data Structures and Algorithms , DBMS , OOPS , Machine Learning	2019-20-sem2
ARM Embedded Technologies Private Limited , Bangalore	Comments: Expectations from industry : The students are working in various VLSI and communication projects like peak detection and power estimation on I/Q data, receiver impairments estimation in MIMO systems, Fuel Gauge Algorithm Development in Li-Ion Batteries, Analysis on 2G logs, convert RTL design into netlist, design verification etc. Students are using Labview, verilog, VHDl and scripting languages like tcl, python , PLA tool, in their projects. The students can refresh their basics and learn basics of scirpting languages before they come for PS 2	2018-19-sem2
ARM Embedded Technologies Private Limited , Bangalore	Debugging of various processor design related issues through RIS tool. Tool used (Development tools - H/w, S/w) : RIS (Random Instruction Sequence) tool Objectives of the project : To understand basics to top level CPU verification Major Learning Outcomes : ARM architecture, various verification aspects Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment absolutely professional. The colleges are patient and understanding throughout. Academic courses relevant to the project : VLSI architecture and Adv. VLSI arhitecture	2018-19-sem2

Company	Experience	Year
ARM Embedded Technologies Private Limited , Bangalore	Synthesis and placement steps in physical design process. Tool used (Development tools - H/w, S/w) : Tcl, Innovus, Genus Objectives of the project : Performing PPA trails to hit the desired targets in synthesis and placement processes in the physical design flow to achieve desired frequency. Timing analysis to be done for all the process corners while keeping the setup timing issues at the minimum. Major Learning Outcomes : Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : N/A Academic courses relevant to the project : Computer architecture and Analog, Digital and verilog devices	2018-19-sem2
ARM Embedded Technologies Private Limited , Bangalore	Mentor Mentor comments: Akhilesh is assigned to develop/debug the power management features for ARM's RD-E1-Edge reference platform which incorporates "Neoverse E1 CPU". ARM not only provides the processor architecture but also provides reference software. "The Arm Neoverse E1 CPU delivers best-in-class throughput efficiency. It incorporates a new simultaneous multithreading (SMT) microarchitecture design. With SMT, the processor can execute two threads concurrently resulting in better aggregate throughput performance" Akhilesh was initially guided to understand the ARM RD-E1 architecture and design specifications. Akhilesh excelled at this and he was able to understand those specifications. He is now onto developing/debugging the power management features. He is quick learner, good team player and committed to work. We are very happy with his progress in the work. Mentor comments: Strengths Very quick learner – Within a very short period of time he has understood our flow and is confidently able to make changes and test without any problems. Meticulous and diligent – has a very good idea of what he is doing and what the end result should look like. He takes the pain to question and understand the task. Tries to solve problems independently – He does ask for help when he is really stuck but mostly I have seen that he tries to solve all issues by himself. Even though he is very new to our flow, he is able to debug and solve issues. Areas of improvement None found. He should just continue doing what he is doing right now. Mentor comments: In the short time that I have worked with Rohit, he seems to be a smart, hard-working person who can quickly pick up on things. Being very new to not just ARM, but to the whole industry, he ramped up very well and did not need a lot of spoon-feeding. With little details given on his tasks, he puts in a lot of effort to understand things on his	2019-20-sem2

Company	Experience	Year
	own and carry them out independently as far as possible. He has successfully added support for Arch32 External Debugger to ARM A-Class CPU Directed Verification infrastructure. Currently he is working on a script that will be extracting the ARM System Registers R/W value from Machine Readable Specifications. Till now, I would say he is doing a great job! Brief write-up on PS-II station : The students are working in the area of verification/Validation, Reducing Cycle Time for Build Quality Feedback through Enhancement in Hardware & Software Infrastructure, Testing and implementation of Advance eXtensible Interface Weighted Random memory Delay Module, Designing a wrapper component for CPUs, Providing Power support and managment capability from the firmware level to kernel level for latest hyperthreaded CPU Architectures designs of ARM etc. The students were given training on Labview in National Instruments. Students worked on various tools and languages like C, python, Linux/UNIX, verilog, computer architecture, shell scripting. Awareness of scripting languages, programming concepts and computer Architecture are themareas the organisation is looking at for the various projects. Student	
ARM Embedded Technologies Private Limited , Bangalore	As a part of the Open source software group which is developing firmware for infrastructure designs in ARM, I had to work on Debugging the powering off of a multithreaded processor. i also had to develop a framework for message transfer for different entities in an SOC. Tool used (Development tools - H/w, S/w) : C, ARM based Simulators, Gerrit Objectives of the project : To turn of the cores with control and message passing between cores Major Learning Outcomes : Firmware design Details of Papers/patents : na Brief Description of working environment, expectations from the company : The OSS group in ARM is a very friendly, motivated and flexible team with wide range of domains and to work on. The company expects you to be able to deliver the project by the release date and to be proactive in respect to the work you are undertaking. good communication is one of the main requirements for this team as its highly collaborative and technical. Academic courses relevant to the project : computer architecture, microprocessor interfacing.	2019-20-sem2

Company	Experience	Year
Aruba Networks - Network Programming, Bangalore	My project involved the setting up of a WLAN Controller and Access Point (AP) to enable the configuration of a Captive Portal. This was followed by a comparison of performance of the Captive Portal Authentication using 2 different web servers, which are Apache and Nginx. Their performance was compared and analysed using a number of tests and parameters such as no. of authentications, memory, CPU usage, etc. Once this was completed, feature addition to the existing system was initiated, and further testing of the feature(s) was required. Objectives of the project: To analyse performance parameters for Captive Portal Authentication when the web server used was changed from Apache to Nginx. Feature addition and testing, for the new system. Outcomes of the project: Nginx server performed better when it came to bottlenecks such as memory, CPU usage, etc. Major Learning Outcomes: An insight into Networks being applied at a large scale. Experience of a corporate work environment. Brief Description of working environment, expectations from the company: I was allowed to work at my own pace, in order to improve the learning process. The company expects you to be productive when you're at work. You get to work on projects just like a full-time employee. They are willing to offer PPOs (No interview process, it is based on your manager's decision) if you show interest in the work and are capable of completing assigned tasks.	2016-17-sem2

Company	Experience	Year
Aruba Networks - Network Programming, Bangalore	A WLAN Controller is a device that management device used for managing APs and other controllers. This allows for working centrally and configuring thousands of devices under this controller. The controllers' have to be connected to each other and the APs using secure protocols like IPsec to avoid security attacks like denial-of-service or man-in-the-middle attacks. IPsec is used for encryption and authentication of packets at the network layer. IPsec encrypts packets based on Security Associations, which are established by the Internet Key Exchange (IKE) protocol. Aruba has its own proprietary implementation of the security suite that it uses in its devices. A new platform is being developed where the kernel will be responsible for handling the user traffic. In this scenario it has to also perform the IPsec functions. The project involved working on this new platform and perform all the necessary changes from the security point of view. Objectives of the project: Make changes to security features in the Aruba controllers. Outcomes of the project: The kernel now is able to handle the IPsec functionalities of the controller. This would allow the controllers to work on other applications over an IPsec tunnel. Major Learning Outcomes: Learned a lot about Network security and networks in general. Also how things in a software company. Brief Description of working environment, expectations from the company: I was allowed to work at my own pace, in order to improve the learning process. The company expects you to be productive when you're at work. You get to work on projects just like a full-time employee. They are willing to offer PPOs (No interview process, it is based on your manager's decision) if you show interest in the work and are capable of completing assigned tasks.	2016-17-sem2

Company	Experience	Year
Aruba Networks - Network Programming, Bangalore	The project involves automation of the configuration of Controllers and Access Points (APs) through the WebUI based on a specific requirement, which is then followed by the validation of the above stated through WebUI and through CLI Commands. This project is performed using python scripts written on the existing PATA-NG framework along with the help of selenium library. Objectives of the project: Automation of User Experience. Outcomes of the project: Automated user experience. Major Learning Outcomes: learnt using selenium-python. Brief Description of working environment, expectations from the company: I was allowed to work at my own pace, in order to improve the learning process. The company expects you to be productive when you're at work. You get to work on projects just like a full-time employee. They are willing to offer PPOs (No interview process, it is based on your manager's decision) if you show interest in the work and are capable of completing assigned tasks.	2016-17-sem2
Arup India Pvt. Ltd. , Hyderabad		2018-19-sem2
Arup India Pvt. Ltd. , Hyderabad	During our PS-II time at ARUP, we worked on enhancements, keywords and bugs for new software release, PRIMER 17.0. Apart from that, we also got some training in using LS-DYNA along with PRIMER, D3PLOT, T/HIS and REPORTER. We also worked on the small project of positioning user defined block in SBA model, dummy positioning and seat-squash Tool used (Development tools - H/w, S/w) : C-language,JAVASCRIPT Objectives of the project : to create PRIMER software Major Learning Outcomes : Beneficial if want to enter in coding sector. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is quite good here as no work pressure is their on any of the employee . Also you have to complete * working hours a day which is quite good. Academic courses relevant to the project : C-language,FEM.	2018-19-sem2
ASA Industries , Noida	Brief write-up on PS-II station : ASA Noida engage in manufacturing parts for electrical application. They students were equipped with the tools as per the industry demands. More experience on simulation tools would be an added benefit.	2019-20-sem2

Company	Experience	Year
ASA Industries , Noida	I identified various waste in the various manufacturing processes at the company.I recommended installation of hydraulic clamps which will enable to successfully implement SMED.I I was instrumental in procurement of various high end machines for the company such as laser marking machine and bomb calorimeter.Which will help in tracking of the products and determine the best wooden pellets respectively.I also designed gauge design which will help the company in qualifying the product Tool used (Development tools - H/w, S/w) : Large machine,AutoCAD,Solidworks,MS excel,Ms office Objectives of the project : To improve efficiency of manufacturing processes, tracking of the company products. Major Learning Outcomes : Brief Description of working environment, expectations from the company : Academic courses relevant to the project management,sustainable manufacturing : Lean manufacturing,Manufacturing	2019-20-sem2
Ascent Health and Wellness Solutions Private Limited,	Mumbai	2018-19-sem2
Ascent Health and Wellness Solutions Private Limited,	The first project was documentation. Starting right from scratch it involved having face to face sessions with concerned people and making a plan as of how to begin and design the page view. It is an ongoing process. The next project was about automating MDM cleanups and mapping by helping create programs which will reduce the manual work and time. This was done by learning python from scratch along with querying in SQL. All further projects were based on this. Working on other projects like enrichment of MDM master data, automation of quality check, photobuddy, supply chain hierarchy etc. Tool used (Development tools - H/w, S/w) : Python, SQL Objectives of the project : Help organize content generated by multiple teams in one place and help the DGT in cleanup by automation Major Learning Outcomes : Learned about pharmaceutical terms like schedule, atc codes, python, SQL Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : None	2018-19-sem2
Ascent Health and Wellness Solutions Private Limited,	Ascent Health and wellness solutions is into a Pharma supply chain management. It has a data of different attributes related to pharma and some FMCG products and Ascent had a data for around 2.2 lakh products. The entire data related to these products are stored in Master Data Management	2018-19-sem2

Company	Experience	Year

(MDM). So different distributer and retailers have their own data base where they can record details of products but MDM as a master maintains the data of each product with a unique code to each product, MDM acts as a single source of truth by standardizing the data and incorporated rules in order to find incorrect data, new rules are made with some logics and algorithms to find the incorrect data and helps to identify the products with issues, these products with issues should be cleaned by Data Governance Team (DGT), along with cleaning process DGT also works on Mapping, Levelling, Quality Checks etc. The data in MDM should be validated by some professionals so as a part of DRX-Doctor's Program doctors are hired to validate required data in MDM. MDM system is critical for analytics, financial reporting, customer management, customer care, compliance, product regulatory adherence, cross-selling and up-selling between the warehouses and ensure smooth supply chain management .Finally, Resource Scoring Framework was done in order to standardize the Data governance team to give One Agent One Score (OAOS). OAOS was implemented based on the performance of each member by considering few parameters of each team member such as Quality, Efficiency, Adherence, Utilization, Knowledge etc. Tool used (Development tools - H/w, S/w) : SQL, DATA EDO, AWS Objectives of the project : To help in building a better medicine master by getting doctors as consultants and work with Data Governance Team in order to improve the quality of the data we have and help to build a robust and through validation layer of Master Data Management. To create new Health Metric tests to improve the quality of the data in Master Data Management (MDM). Creation of Resource Scoring framework based on the performance of the team member of Data Governance Team. Major Learning Outcomes : • DATA EDO is a tool where I had written the table and column description to each attribute related to products and their related entity. Which acts as a meta data helps for internal purposes and for third party. • I had written STANDARD OPERATING PROCEDURES (SOP) for the validation of attributes which helps the DGT team to understand the procedure for validation of attributes. • I had written the reference documents for the 2 attributes which helps the DGT team to refer the documents for further reference. • Came up with the new Health Metric test which helps the DGT team to identify the manufacturer, measurement, schedule related details. • As a part of DRX-Program onboarded 4 doctors as a consultant to the

Company	Experience	Year
	organisation which helps the DGT team in validating the data. • Guided Quality Check Team and Cleared a small concepts to them and helped them to minimise the products failing Health metric. • Making dashboards helps the DGT team to understand the complete data on sight. Making this dashboard twice a week which give the summary of the entire data. • Recently started working on resource framework i.e One Agent One Score (OAOS) and continuously working on it to improve and standardise this. Helps to understand the area where the agent is really week and helps management to give training to a agent in a particular area. This is at a pilot level and will expand soon. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is really good and can really learn new things Academic courses relevant to the project : DOSAGE FORM DESIGN	
Ashoka Buildcon Ltd , Mumbai		2018-19-sem2
Ashoka Buildcon Ltd , Mumbai	Observation of Construction work execution Tool used (Development tools - H/w, S/w) : All road construction machinery Objectives of the project : Widening of 4 lane NH to 8 lane Major Learning Outcomes : Construction execution Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Highway construction practices, Pavement material characteristics	2018-19-sem2
Ashoka Buildcon Ltd , Mumbai	Learned different techniques of construction practices and planning and implementation of design work into the field. Designing of Job mix for Stone Matrix asphalt pavement and research on Foam Bitumen for cold recycling. proposal of signage and markings on JNPT road project. Tool used (Development tools - H/w, S/w) : construction materials Objectives of the project : This internship was a useful experience. I have gained new knowledge, skills and met many new people. I achieved several of my learning goals. I got insight into professional practice. I learned the different facts of working within a construction company. I experienced that proper planning, management and execution, as in many organizations, is an important factor for the progress of projects. Related to my study I learned more about the Designing and construction of all types of pavements and materials. I have witnessed various construction activities and	2018-19-sem2

Company	Experience	Year
	have got better understanding of practical knowledge. I understand the concept of use of WMM as crack relief layer to avoid reflection cracking from CTSB and CTB. Since it is coastal area provision of CTB and CTSB as GSB layer is followed by the guidelines. I learned how calculations are done for no of passes and assigned the rolling pattern for different types of pavement. Construction of pavement quality concrete and load transfer mechanism of construction joints, i.e. Dowel and Tie bar. Apart from construction of pavements I learned about various methods of pavement and structure testing. I learned about falling weight deflectometer which runs upon the pavement surface to analyze the rutting effect of traffic on pavement and determines the new overlay thickness. For super structures Non Destructive Testing with ultrasonic transducers to determine the quality of structures and analyze the future life of structure. The calculations concluded satisfactory as per the IRC guidelines. During the internship, under the guidance of Er. Devendra Marode sir, I was assigned a project which is Job mix design for Stone Matrix Asphalt. By following the guidelines of IRC SP 79 and MoRTH specification I conducted various testes on Marshall mold, such as density test, specific gravity test, VCA dry rodded test, stability and drain down test for percolation of bitumen during transportation. All the test provided the satisfactory results as per the MoRTH guidelines and this concept of job mix formula will be used in future projects of Ashoka Buildcon Ltd. I would conclude that the internship was good to find out what my strengths and weaknesses are. This helped me to define what skills and knowledge I have to improve in the coming time. At last this internship has given me new insights and motivation to pursue a career in highway designing, planning and construction. Major Learning Outcomes : Planning, Management and Designing Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Pavement materials and construction, Highway construction practices, Highway geometric design.	
Aurigo Software Technologies , Bangalore		2019-20-sem2

Company	Experience	Year
Aurigo Software Technologies , Bangalore	I was part of one of the teams that directly work on the company's flagship product "Aurigo MasterWorks" and work was related to both bug fixes on priority and new feature implementations on the product. Every developer is assigned work that has equal parts of Front-end, Back-end, and business Logic. The work was based on Client Asks/Requirements and the company follows AGILE development model, so efficiency was focused upon. Great introduction to an actual IT work life where "How" to write good code is emphasized and valued! Tool used (Development tools - H/w, S/w) : Visual Studio ,MicroSoft SQL Server ,Sequel Server Reporting Services. Objectives of the project : Contribute to the development of AurigoMasterworks as part of the team student has been assigned to, and deliver a plethora of feature implementations and Bug fixes. Major Learning Outcomes : Learning technologies and practices for becoming a competent full stack Developer Details of Papers/patents : Brief Description of working environment, expectations from the company : Work environment is extremely positive and active. The company is scaling big and is actively pursuing (and on track to reach) its roadmap targets for the future. AGILE model of development has been adopted pushing for quick responses to client asks for bug/ feature implementations. The company understands that a new developer will take time to make way around the code base and actively encourages discussions regarding any doubts. The main expectation Aurigo is looking for is the student to be proactive in discussions and day to day work. Academic courses relevant to the project : Object Oriented Programming. Data Base Management Systems,	2019-20-sem2
Aurigo Software, Bangalore	Aurigo Software Technologies Pvt Ltd provides cloud-based capital program and project portfolio management software for infrastructure owners. Their software "Aurigo Masterworks" automates capital planning and program management processes to help capital infrastructure program owners plan and deliver mid-sized to large capital programs. Its clients include large capital program owners in North America including Colorado DOT, Utah DOT, Oregon DOT, Port of Portland, TransCanada and a host of others. In the initial days, I had to be a part of the team that was responsible for preparing exhaustive training repository for Business Analysts in the company. Being a part of training team has helped in exploring the software in-and-out and	2015-16-sem2

Company	Experience	Year
	enhanced the knowledge on the Business needs behind each feature in the product. For a brief period of time, the work included analyzing all the forms and features developed in various projects. This helped in understanding various typical requirements in the projects and facilitated in drawing insights on the common needs in these projects which can be made a part of the base product. After the preliminary weeks of training, I was assigned as a Business Analyst for the project Capital Delivery and Management System(CDMS). The project focusses on customizing the product, "Aurigo Masterworks", to design functionality that conforms to the needs of Ministry of Transportation, Ontario. The major skill set required for the project is the knowledge of Aurigo Masterworks. The knowledge acquired during training facilitated in understanding the customization done for CDMS and the team members and my mentor have been really helpful in guiding me on the business model that is being followed in the organization. I have obtained a deep understanding of the software module, analyzed the client requirements, documented the approach to be taken to implement them and monitored the Development and Quality Assurance of the requirements' implementation. Such implemented requirements were delivered to the customers and I am working on maintaining and enhancing the same for the next release. I am the only Business Analyst who has been currently working on this project and I think being a part of this entire process is a good achievement for me. I have learned a lot in the process and have helped in developing something that will have some real consequence. Needless to say, I have learned good management skills through my PS-2 which will help me in my future. Now I think I have a general idea of how things work and hence will be better equipped to step into this world. I have also learned how to interact with people on a professional level. I sincerely thank BITS-Pilani for providing me such an amazing opportunity very early in my life.	
Aurigo Software, Bangalore	Aurigo Software is a global software company that provides cloud based capital project management software solutions for large capital infrastructure owners in the public and private sector industries. Their flagship product, 'Masterworks' automates every phase of the capital project construction lifecycle. Being a civil engineering student, I was able to understand the product quickly after going through the training decks. I worked with the technical writers of	2015-16-sem2

Company	Experience	Year
	Aurigo in preparing quick start guides and training material about the product for business analysts. Business analysts at Aurigo are primarily responsible for identifying the business needs of customers and stakeholders and delivering 'Masterworks' successfully. Hence training BA's on the product was critical. Being part of the training team has been a wonderful learning experience. I got to know the product better and was applauded by Harini Anil, Director of Product Management at Aurigo. After the training program, I worked in the role of Business analyst in CDOT team. Colorado Department of Transportation (CDOT) has signed a contract with Aurigo to implement and support Masterworks across the state. Being a part of CDOT team has given incredible learning opportunities. There was a lot of non-textbook knowledge I got here. While gathering requirements from the onsite team, I got to know the importance of understanding something to its deepest possible and being very clear about it when explaining it to the team. I understood how important my basic concepts need to be for the developers' team and myself to be on the same page when discussing about something. I learnt to drive meetings, give walkthroughs to the offsite team and demos to the onsite team. I realized inter-disciplinary knowledge is important to work across cross-cultural teams. My knowledge base was broadened by learning about the processes followed by DOTs of USA and Canada in Capital Project Management, integrating software application with third party systems using FTP solutions, doing impact analysis of the requirements given by customer, studying and applying agile methodologies. All the work I did here was completely new which we was never taught in college. I understood how different the industrial exposure from classroom experience is. I must say that PS – II program has really helped me look beyond the academics, made me more result oriented. Kushagra Gupta 2012A2PS535P Aurigo Software is a global software company that provides cloud based capital program and project portfolio management software solutions for large capital infrastructure owners in the public and private sector industries. My project include development of intranet website using word-press Content management system .This gave me first-hand experience about working with website as I had to build it from scratch. Following the completion of that project I was assigned the task developing plugins for the website. Then I worked on analysis of big data using hadoop framework which is required to find the hit rate of the pages and the URLs visited	

Company	Experience	Year
	most recent visitors. This task was especially challenging since I had to use python modules for hadoop which was a totally new domain to me. The above mentioned projects require the knowledge of HTML, CSS , Javascript, PHP, Python. It is recommended to have prior knowledge in these topics if one wants to apply at this station. The overall experience of the internship was gratifying. There is ample opportunity and requirement for self learning.	
Aurigo Software, Bangalore	Comments: In general, the students are good in adapting to the new learning environment. However, there are situations where students are not prepared in advance as the requirements in Industry are varied and latest eps. In terms of using certain softwares and operating certain equipment/machinery. Students in Aurigo Software, Bangalore are first trained on Aurigo Masterworks which is a company proprietary software. From this it is evident that students will always have new surprises in terms of learning and contributing in Industry. Needless to say, students may not be well versed with all the softwares used by Industry but as long as they are committed to learning, they have the ability to do it in real time. So, Industry is looking for students with an aptitude for learning. Student	2016-17-sem2
Aurigo Software, Bangalore	We attended training session after joining our PSII Station. Simultaneous a project was assigned to me to prepare Business Requirement Document to make Aurigo Masterworks ADA Compliant. After working on the project for about one and a half month, I submitted the findings and reports to the organisation. After this I received another project of preparing a business requirement document on competitor analysis with Ecosys EPC. After completion of this project I was assigned to the MassDOT project (Massachusetts Department of Transportation). I have been working with Mr. Lokesh, the onsite Business Analyst, since then in this project. My task has been specified to gather client feed backs, prepare task descriptions for the development team, prepare the mock ups to be included in the product build for the customer and testing the functionalities. Tools used (Development tools - H/w, S/w): Aurigo Masterworks, MS Excel, Microsoft TFS, microsoft Sharepoint. Objectives of the project: To prepare BRD on ADA Compliance. To prepare BRD on competitive analysis of Ecosys EPC and Aurigo Masterworks. To deliver the product in sprints to match with client's requirements. Outcomes of the project: The BRDs were reviewed by my mentor and the	2016-17-sem2

Company	Experience	Year
	product team. After which some suggestions were implemented in the build. The MassDOT project has completed its 5 sprints and is into its 6th sprint. The client has been satisfied with the customization made to match their business needs. Major Learning Outcomes: Learning the skill of capturing and processing client feed backs to be implemented as a feature in the software product. Learning the deep skills related to MS Excel. Brief Description of working environment, expectations from the company: The working environment is very exciting in the company. The company has been divided into two major divisions, product team and the business team. The product team deals with the task of developing out of the box features while the business team deals with matching the expectations of the clients. The business team is again divided into sub teams. Each sub team dedicated to each customer (majorly DOTs). Teams are composed of Project Manager(s), Business Analyst(s), Software Developers and Software Testers. The company expects the employee or intern to be eager to learn new concepts and work with full motivation on them. Good communication skills are also a boost to have in this organisation so as to have an effective communication with the clients (majorly USA's DOTs).	
Aurigo Software, Bangalore	The company calls out interns from Civil stream to work in the Business Analyst department. The role of a Business Analyst, in brief, is to understand the requirements of the customer making use of domain (civil engg.) knowledge and be able to convey the same to the development team effectively for implementation. Tools used (Development tools - H/w, S/w): MS Office. Objectives of the project: To understand the requirements of a client and be able to devise an implementation path. Outcomes of the project: Understanding company's product and client's business process in great detail. Major Learning Outcomes: Understanding how Business Process are mapped. Learning the role of a BA. Improvement in communication skills. Brief Description of working environment, expectations from the company: Need to have decent communication skills. Should be able to learn the company's product in detail quickly.	2016-17-sem2
Avaamo , Bangalore		2018-19-sem2

Company	Experience	Year
Avaamo , Bangalore	Tool used (Development tools - H/w, S/w) : Python, SQL, Ruby on Rails, Angular, NLP, Machine Learning Objectives of the project : Address the cold start problem in bot creation and document question answering Major Learning Outcomes : Understanding on Natural Language Processing and various retrieval algorithms Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Information Retrieval, Object Oriented Programming, Data Structures and Algorithms, Database Systems	2018-19-sem2
Avaya India Private Limited, Pune	I was allotted work in the Solutions Testing team at Avaya. What this entailed was that I was required to create a Web Browser based tool that could be used to look at machine statistics with various other features. The required skill sets were an understanding of basic web development, such as HTML, CSS and Javascript. I also needed to figure out how to use other languages, such as PHP, Ajax, Python and MySQL to interact with the created web page. Being a student of Electronics with no prior exposure to any of these languages, I ended up spending a lot of time browsing through various online resources for the littlest of questions. In my opinion, PS2 is probably the best way to introduce students to the industry. The change in environment from college is immense, and having to face it directly as an employee might be a bit too much for a few people. PS2 gives you the opportunity to interact with a lot of professionals who have eons of experience in their chosen field, and their constructive feedback helped us in developing new skills as well as refining other skills. I sincerely believe that due to this hands-on experience we are now better prepared for the future and experienced gained here will help in smoother transition from academics.	2015-16-sem2

Company	Experience	Year
Avaya India Private Limited, Pune	In my 5 months with Avaya, I have worked on Natural Language processing project. The project was to create a working software which captures the conversation from a chatting application integrated with chatbot and get the customer satisfaction level using sentiment analysis. Although I did courses like data mining but Natural Language Processing is out of academic course where I have to learn myself from online websites. In the process of working I learned to use algorithmic knowledge and also improve my problem solving skills. During the project, I was helped by my mentor and colleagues. We had discussions and meetings where I had a good learning experience. I was also involved in development of Avaya's product Cobrowse. I was given the task of integrating a new object oriented DB called InterSytem Cache. It was a challenging task and I was able to do it with the help of other team members. It was a rewarding experience. On learning front, my internship at Avaya was a great experience. I got to work with people with significant experience in programming. Working in a team with them was an intense as well as fun experience. Though I was an intern, I was given some very research oriented projects. I would like to continue working on some concepts on my own, further down the road. Internship at Avaya has been a rewarding experience.	2015-16-sem2
Avaya India Private Limited, Pune	I was allotted work in the End-points team at Avaya. We were given Avayas' Communication Manager products (CM) and asked to debug the existing test cases, and write new ones. The required skills for my project were a basic understanding of Java (to understand the project they had given to me, as well as to understand the given test cases). I also needed a few lessons on running the JSystem and the Android Debugger (ADB). My mentors at Avaya were more than willing to help me out with any doubts that I had, and in general, made sure I was never stuck with one thing for too long. Frequent KT (Knowledge Transfer) sessions were conducted initially, to ease my transition into this new field. In my time here, I learned how to work alongside other people and learned the true meaning of teamwork and how important colleagues are in an office space. PS-2 helps one to build their persona, knowledge base and interact with industry experts. My experience at Avaya will surely have a very positive light on affect my career. It has ensured that I have the necessary capabilities that I do not find myself out of depth as and when I take up a new job.	2015-16-sem2

Company	Experience	Year
Avaya India Private Limited, Pune	In my ten months with Avaya, I have worked on various projects, many of them experimental. My first project was to develop a tool that will help user in predicting regression areas for testing using text data available on them. I am from mathematics and EEE background, so I had to prepare a lot to be up for the task. During the preparation, I was helped by my mentor and colleagues. I was first given the task of finding out which programming language will be helpful and what algorithms to use to predict desired outputs. I found that Python is very helpful in this area and started working with it. I had to study the NLP techniques to use. The tool developed was pretty useful in the testing phase. I was also allotted to make changes to a tool company uses for call management. We worked on C# for that project. It was a rewarding experience. My second project was to check if JMeter can replace Silk Performer as a performance testing tool. I comprehensively studied both the tools and used Jmeter to perform operations that can be performed using Silk Performer. On learning front, my internship at Avaya was a great experience. I got to work with people with significant experience in communications and programming. Working in a team with them was an intense as well as fun experience. Though I was an intern, I was given some very research oriented projects. I would like to continue working on some concepts on my own, further down the road. Internship at Avaya has been a rewarding experience.	2015-16-sem2

Company	Experience	Year
Avaya India Private Limited, Pune	I worked at Avaya for 5 months in the ACS team. I did a couple of projects in the entire duration of my internship. My first project was an interesting one because it involved social media which every youngster is a fan of. It involved making a gateway so that the people (clients or social media users) can interact easily with the contact center agents through social media. Being from an Electronics background, I found it tough at the start but later on with the help of my guide, I was able to build things which were only ideas before at Avaya. We could engage social media users (on Facebook) to directly communicate with contact center agents in real time. We also had a demo to one of the top officials from the US office. It was an amazing learning experience, both in the technical and professional sense. My second project involved working for their product AADS. I got a chance to write Junit Automation Test cases for ACS and contribute towards increasing code coverage. Frankly, I was the only one doing it and it was appreciated by my manager and mentor through mails too. I got to learn exception handling, mocking and the true value of testing for any product development. While I was writing the test cases, my other team mates continued writing the main code. Thus my code proved to be a test driven development for the product. Apart from the technical skills that I acquired, I got to learn how different to work on a project in an industry in comparison to academic projects. Industrial Practices like code review, improving structure and quality of code and documentation are very important and significant to the development of quality product for the customer. I believe this experience will surely help me in my future prospects. PSII has been an exceptional initiative taken by BITS-Pilani to bridge the gap between academic learning and the industry expectations. This hands-on experience proves to be very useful for students further down the road in their career.	2015-16-sem2

Company	Experience	Year
Avaya India Private Limited, Pune	I was assigned to the CM (Communication Manager) team at Avaya. They asked me to work on the website they were using for the testing of different patches on CM. They wanted me to create a new platform on the website for completely new type of test Setup. The required skill sets were an understanding of basic web development, such as HTML, CSS and Java-Script. The existing website was coded in django and python. I needed to learn these languages before I could understand their code and get started with my work. I spent a lot of time studying these languages on internet but what really made me understand the language was when I tried to understand how their code worked comparing the code with the languages I knew like HTML and C++/java. Then trial and error helped me in getting thorough with language. I also had to learn shell-scripting for the project but the language was comparatively easy. During my time here, I learnt a lot of things. Starting with how the company actually works, how the work for a particular project is done by a team and not by a single individual. PS2 gave me a platform to test my knowledge practically and in a better way and also gave me a chance to work with the professional and get their guidance. One of the most important things we get to learn in PS2 while working in the company is the way to get things done quickly and effectively; which is what matters the most. I feel that working in a company as an employee and having to face deadlines gives us a lot of maturity in terms of everything. The deadlines even helped me in working late nights in the office if needed. I am sure that this Internship/PS2 prepared me for the future and gave me the best idea of what I am required to learn for my future. PS2 helps us know what areas we lack in college which are really important and makes us strong enough to work in a company as an employee.	2015-16-sem2
B.G.Shirke Construction Technology Pvt. Ltd. , Pune	Student	2018-19-sem2

Company	Experience	Year
B.G.Shirke Construction Technology Pvt. Ltd. , Pune	The main work of this company includes precast construction technology. Thus, I was exposed to this technology through various live projects like analysis of G+16 building, design of retaining walls and design of G+3 industrial building. Apart from precast, i got first hand experience on analysing and designing of steel structures. The projects on steel design were design of 12.5mx12.5m roof, two steel warehouse, steel Parking towers and 160m steel bridge. Most of the time was spent on design of steel parking tower, G+26, and two towers of G+15 with different plan area. Tool used (Development tools - H/w, S/w) : ETABS, SAFE, AUTOCAD, PLANWIN and Excel. Objectives of the project : The objectives of the projects are- 1. To study the architecture plan in detail, 2. Analysis and design of the structure as per new codes and such that they are structurally stable, ductile and serviceable for desired designed life period and 3. To optimise the construction cost by using optimum section properties and other design techniques. Major Learning Outcomes : Design of steel structures, Precast technology and optimisation of project. Details of Papers/patents : Brief Description of working environment, expectations from the company : The interactions with the Vice President of the department were very fruitful, worthy and interesting. Academic courses relevant to the project : Design of concrete structures, Earthquake engineering, Design of Steel Structures and Strength of Materials	2018-19-sem2
Bajaj Auto , Pune		2018-19-sem2
Bajaj Auto , Pune	Fan design - Designing a fan that gives high flow rate (CFM) while consuming low power. Tool used (Development tools - H/w, S/w) : Star CCM+, UG NX, Excel Objectives of the project : Designing an axial fan for radiator cooling Major Learning Outcomes : Learnt new softwares and various aspects of fan design. Details of Papers/patents : Brief Description of working environment, expectations from the company : Good working environment. Academic courses relevant to the project : Prime Movers and Fluid Machines	2018-19-sem2

Company	Experience	Year
Bajaj Auto , Pune	Tool used (Development tools - H/w, S/w) : AutoCAD, Siemens NX, AGV programming Objectives of the project : Implementation of Automated Guided vehicle for material movement, Shop floor layout design and changes, Planning the material handling in new BAJAJ Auto shop. Major Learning Outcomes : Learned about Automated guided vehicles which are used in industries for material handling. Learned the programming of automated guided vehicle. Different technology used in industries. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Production, planning and control, Lean manufacturing and Quality Control Assurance and Reliability	2018-19-sem2
Bajaj Auto , Pune	Press and its tools were studied. A visit to NAPL was arranged to get the practical understanding of presses. Operations of the Press were studied along with the defects arising in them. PAM-STAMP software was learnt from GALAXY Vendor by observing the simulation of 2 Parts i.e. Outer and Inner Door. Removal of the defects arising in the form Simulation of Reinforcement has been performed with three materials to check the effect of R-Value and N-Value on metal formability. As the part has cracks and wrinkles even after a design modification it is currently in the design stage. Tool used (Development tools - H/w, S/w) : PAM-STAMP Objectives of the project : USE OF FORMABILITY TO ELIMINATE DEFECTS AT DESIGN STAGE FOR SHEET METAL PARTS Major Learning Outcomes : Learnt PAM-STAMP software Details of Papers/patents : Brief Description of working environment, expectations from the company : Good working environment Academic courses relevant to the project : Material Science	2018-19-sem2

Company	Experience	Year
Bajaj Auto , Pune	A) Optimization of multi link suspension of two wheeler 1. for a certain wheel force, wheel displacement 2. For a certain spring along with bump stopper at end B) finding effect of manufacturing tolerances on wheel rate, wheel displacement(travel) so that liad it can support won't be less than allowable design load Tool used (Development tools - H/w, S/w) : Microsoft excel, VBA, MSC Adams Objectives of the project : Optimization of multi link suspension of two wheeler for both types 1) suspension with bell crank directly mounted to swing arm 2)suspension with bell crank mounted between link and to frame and effect of manufacturing tolerances on reaction forces on joints and wheel force Major Learning Outcomes : Suspension, VBA, Msc adams Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Kinematics and dynamics of machines	2018-19-sem2
Baldor Technologies Pvt Ltd , Mumbai		2018-19-sem2
Baldor Technologies Pvt Ltd , Mumbai	Created many apps related to fraud detection and implemented instrumentation in apps like using pact, dredd, tracing, also created an Alert system to notify all employees if any system breaks. Tool used (Development tools - H/w, S/w) : VS code, git, many libraries of python, ruby, elixir, golang Objectives of the project : Alerts related Major Learning Outcomes : writing production ready code, writing test and other instrumentation for the same, also deploying apps Details of Papers/patents : Brief Description of working environment, expectations from the company : great working environment Academic courses relevant to the project : DBMS, oop, cloud computing(not so imp),	2018-19-sem2
Baldor Technologies Pvt Ltd , Mumbai	Brief write-up on PS-II station : Essential prerequisite courses required before working on the project OOP, DBMS, Data Structures, Web development, operating systems, Deep Learning Specialization, NNFL, Machine Learning Ruby on Rails, React, PostgreSQL, react JS, Elixir, Python, Google Cloud Platform, Google Datastore API, Pytorch/Tensorflow, Golang, OOP, NNFL, OS, DSA, DBMS, CN Open Source Coding, Image Processing Student	2019-20-sem2

Company	Experience	Year
Baldor Technologies Pvt Ltd , Mumbai	I got to build an entire React app by myself. It was a dashboard for agents to conduct video KYC (Know Your Customer) for their customers. I also got to build some parts of the backend that would support the whole video KYC process. Tool used (Development tools - H/w, S/w) : React JS, Elixir Objectives of the project : To build a Assisted Video KYC system Major Learning Outcomes : - Creating front apps from scratch - Using websockets for communication between server and client - Using Rabbit MQ for message queueing Details of Papers/patents : None Brief Description of working environment, expectations from the company : The working environment is excellent. You aren't treated as an intern and are given responsibilities just like a full-time employee which means you get to work on live projects and your inputs are taken just as seriously. The tech team is very young. So, it's easy to communicate while making the working environment fun as well. There is absolutely no hierarchy. You can approach anyone for help, and he/she would immediately lend you a hand. It also helps in the continuous exchange of knowledge. In short, if you are looking for a place that gives you responsibilities and helps you learn a great deal, this is the right place for you. Academic courses relevant to the project : OOP	2019-20-sem2
Baldor Technologies Pvt Ltd , Mumbai	Worked on developing and improving the backends of APIs for verification and information extraction from government-issued identification cards such as aadhaar, pan, voter, etc. I also developed a new API for document perspective correction. We were treated more like a regular employee rather than interns, so we didn't have had any particular projects, but received a part of work, the whole team was working on. Tool used (Development tools - H/w, S/w) : Google Cloud Platform, Python, Ruby, Elixir Objectives of the project : Develop various API's for various business use cases. Major Learning Outcomes : Network and System Design, Image Processing, RestClient, Project development and management Details of Papers/patents : Brief Description of working environment, expectations from the company : The company has a startup culture and things move pretty fast here. So you'll get to experience and work on a lot of different things Academic courses relevant to the project : OOP, OS, Image Processing	2019-20-sem2

Company	Experience	Year
Baldor Technologies Pvt Ltd , Mumbai	Mentor Mentor comments: Students are interactive and knowledgeable. They are proactive in solving the tasks on time. Brief write-up on PS-II station : All the three stations are software based organizations. The general expectations from stations are students should be from computer science background (Qubole) and if not, they should have done electives or acquired enough skill sets on Python, Java, Database, Spring, Hibernate etc	2019-20-sem2
Belong.co, Bangalore	I worked at Belongin the Data team for 5 months which was a great learning experience for me. My project was called Data was acquired from various online, offline, internal and external sourcesalike. Then relevant information was extracted, parsed and standardized. It was stored on a central Elastic Search server and then securely provisioned using Flask. A Quality Check mechanism was also implemented. However, the scale of the project was at the heart of the problem as this data comprised of around 30 Million documents from different sources and hence different formats and structures. I was privileged to work in a growing startup, as you get to experience growth and scale at the same time. Before coming here, I only had a basic working knowledge of Java and Python. However, over time I learnt a lot more of both and more importantly about backend development and big data management in general. The constant faith my mentor and my team showed in me was very encouraging. Belong is a place where everyone takes ownership of the work they do. You get to work on individual projects, ship products and results and see changes being implemented in front of you. That is a huge boost in confidence. There are a lot of BITSians in the company to guide you in practically all aspects of your life here. The most empowering aspect of my experience at Belong was the monumental amount of responsibilities that were endowed upon me which in turn made my internship exposure feel no less than that of an employee. The work culture of Belong has been a very productive one for me as there are flexible timings that allow you to work when you are at your best and all the employees are very approachable. This teaches one to value success rather than the process and thus the power of efficiency and collaboration. Overall, it was a wonderful experience working here. I would recommend Belong to anyone who is looking to learn big and willing to work hard.	2015-16-sem2

Company	Experience	Year
Belong.co, Bangalore	Working in one of the fastest growing startups of India for 5 and a half months had a huge impact on my professional career. The major learnings I acquired included technical aspect of things and character building. The technical aspects include me mastering SQL, Excel and gaining a working knowledge of R and Tableau. I worked in Product Analytics team which helped improving my logical thinking and analytical abilities. Extracting logical inferences from raw data and suggesting useful changes in product on basis of that data, made me think from Business point of view as well. Gaining technical expertise was an easy task with real life problems in front of you. And video tutorials of course! Coming to the latter part of learning, the amount of freedom I got here to work on things I like, was unparalleled. The humility and trust everyone shows in you motivates you to work on new things. The office culture is also very good. You can approach anyone directly (including the CEO) for any sort of assistance. Working hours are very flexible and office has an amazing infrastructure (including in-house chef, bean bags, mattresses, TT table, their own terrace, PS3 etc.) In my time here, I learned to work alongside other people and learn the true meaning of teamwork. There are stand-ups and demo days in which you can showcase your projects and ideas, and it's a wonderful feeling getting applauded from everyone and getting suggestions for improvements. Majority of the crowd here is BITSian (including all co-founders), which gives you a very homely feeling. My major accomplishment here does not include any medal or certificate but the trust and confidence that everyone at Belong showed in me. Experiencing a start-up culture was an amazing experience for me.	2015-16-sem2
Bharat Forge Ltd , Pune		2018-19-sem2

Company	Experience	Year
Bharat Forge Ltd , Pune	My work at Bharat Forge Aerospace involved finding out the cause of aero-engine fan blade distortion while CNC milling of this blade. The problem of distortion is prevalent in the aerospace manufacturing industry, be it titanium, aluminium or even in inconel. Boeing and Airbus lost millions of dollars in scrap because of this. Residual Stress is considered as main culprit behind the distortion. So in this project I studied residual stress and measured it through X-ray diffraction method.There are various methods through which stresses can be measured. In this project I understood about the causes of residual stresses be it mechanical or heat treatment processes. Also I made some recommendations in the process change i.e 1st machining setup before heat treatment. Tool used (Development tools - H/w, S/w) : X-ray Diffraction setup, DEFORM can be used Objectives of the project : To understand the causes of distortion by studying residual stresses and ways to minimize distortion Major Learning Outcomes : Understood about the residual stresses, their measurement methods, Metallurgical aspects of Ti6Al4V alloy, micro-structure, tensile and other testing necessary for aerospace parts. Most importantly I got to know how industry works, pace and decision making . Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment at Bharat Forge Aerospace limited is good, conducive and people are helpful. You have to have patience because you might not get work and related details at very first. This is somewhat due to confidentiality purpose also. But as you spend your time and work here, people will start helping. But start has to be made by oneself only. You are free to learn and suggest ideas and if possible and feasible they try to implement within aerospace. Academic courses relevant to the project : Material Science, Stress Analysis, Fracture Mechanics, Manufacturing Science(PT-1 &2), FEM (for simulations and modelling-Contour method for stress measurement).	2018-19-sem2
Bharat Forge Ltd , Pune		2019-20-sem2

Company	Experience	Year
Bharat Forge Ltd , Pune	New product development for the aerospace department including die design and metal flow simulation Tool used (Development tools - H/w, S/w) : Objectives of the project : New product development of Transmission shaft Major Learning Outcomes : Forging processes, Die design, 3D Modelling Details of Papers/patents : Brief Description of working environment, expectations from the company : The company alloted projects based on the students interest and passion. The team was very helpful and made the environment positive Academic courses relevant to the project : Computer Aided Design	2019-20-sem2
BIS Research Pvt. Ltd. - NonTech , Noida		2019-20-sem2
BIS Research Pvt. Ltd. - NonTech , Noida	As it is a market research firm, my work there was related to the same. My main project there was to track the vast ecosystem of plastics. This included identifying raw materials, bulk materials, intermediates, plastics and derivative plastics. I also assisted in some professional reports by profiling companies, which is a chapter in the company's reports. Tool used (Development tools - H/w, S/w) : The work there required great use of MS Office, mainly Word and Excel. Objectives of the project : The project aimed at tracking the plastics ecosystem and the companies manufacturing them. It also required segmenting the market according to intermediates, source and end- user markets. Major Learning Outcomes : 1) Learned about Report Ethics 2) Acquintance with technical searching tools 3) Familiarity with primary and secondary research tools 4) Learned about various emerging technologies Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment was good, especially in my team. There were activities conducted by HR team around all the festivals. The company is a market research firm so you get to learn much about the market and how it is segmented and analyzed. You also get to learn about different emerging technologies floating in the market. Academic courses relevant to the project : Principles of Management.	2019-20-sem2

Company	Experience	Year
BIS Research Pvt. Ltd. - NonTech , Noida	Worked in healthcare department for a month as research analyst and updated the dashboard and filled the input sheet used to validate secondary research. Then was allotted in the sales team where i used to prepare DKIPs initially for my executives. After that i was allotted Global Liquid Hydrogen Market Report where i ran campaign on the report by cold calling and mailing, made a pipeline for my work to keep a track of the prospect. I had 15 running cases, 8 lost cases and 20 point drive cases under my belt. I have one confirm sale of USD 5,600 and expecting to close about USD 20,000. Tool used (Development tools - H/w, S/w) : Advance Excel, Outlook, Albeit, powerpoint, Word, notepad. Objectives of the project : To Generate Revenue under the sales team by selling a market intelligence report Major Learning Outcomes : Learnt soft calling skills, draft mailing, sales negotiation, annual report analysis, and knowledge of different reports like Liquid Hydrogen, Blockchain in agriculture, Agri drones and robots and many other reports. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : The working experience was great. You will have a balanced work experience here. I got a complete idea about running a startup, had a nice environment in the office. It was easy to interact with colleagues as well as senior executives. A specific project allotment gave me a major boost to commit a mistake and learn from them. The growth rate at BIS is good, as in this company if you do something good even the CEO of the company gets to know about and he will praise you by giving incentives and bonuses. BIS being a Bitsian startup provided me the liberty to change my field of work from research to sales. And if you don't expect a very PPO, then surely will be placed as BIS is an emerging tech startup and it has continued need of employees. Academic courses relevant to the project : Not relevant to acads.	2019-20-sem2

Company	Experience	Year
BIS Research Pvt. Ltd. - NonTech , Noida	My work was regarding research in emerging markets. I had to make a comprehensive database on the available data of Surgical Robotics which would help in doing Market Research and Estimation. It also included product mapping of products given by reputed companies. I also had to make transcripts of calls held by company's researchers. Patent Analysis is the field of AI, ML, Surgical Robotics of over 8000+ Patents Tool used (Development tools - H/w, S/w) : Excel Objectives of the project : Market Estimation of Surgical Robotics Major Learning Outcomes : Work experience, refinery in secondary research, professional work life Details of Papers/patents : Future of Robotics in Medical Surgeries Brief Description of working environment, expectations from the company : My expectations where some more but it through time I got accustomed to the environment and the working environment was very friendly Academic courses relevant to the project : It was somewhat related to pharmacy as it involved research in surgical aspect. I got to know various robots which are used to do surgeries or drug delivery.	2019-20-sem2
Blue Jeans Network India Pvt. Ltd. , Bangalore	Sdk for attendee experience Prime Time. Tools used (Development tools - H/w, S/w): React, Typescript. Objectives of the project: Unit testing. Outcomes of the project: Embeddable player. Major Learning Outcomes: Typescript react. Brief Description of working environment, expectations from the company: Complete project on time.	2016-17-sem2
Blue Jeans Network India Pvt. Ltd. , Bangalore	iOS and Windows App Development. Worked on Blue Jeans's latest product Huddle and helped developed features in both the iOS app for the iPad as well as the Windows app. Fixed bugs and worked on a few Proof of Concepts (POC). Tools used (Development tools - H/w, S/w): Swift3, C#, SumoLogic, AWS, EWS. Objectives of the project: To help develop features and fix bugs related to the application. Outcomes of the project: Involved in 3 successful releases of the application. Major Learning Outcomes: Swift and C# as languages. Writing clean and efficient code. Removing code redundancy. Brief Description of working environment, expectations from the company: Flexible work timings. Friendly people who are willing to help. Good food in aplenty. A good learning curve.	2016-17-sem2

Company	Experience	Year
Blue Jeans Network India Pvt. Ltd. , Bangalore	My project was to develop a web application which fetches the performance data of all the deployed services from a third party. After receiving the data,I had to analyze it and send an alert to the developer if there is an anomaly in performance. Also,I had to plot graphs from the data that I received for each transaction. I made use of javascript to create the webapp and mongoDB for storing data. Apart from this, I worked on some short tasks where I had to fix an API or create an API to fulfill a requirement. Tools used (Development tools - H/w, S/w): MongoDB, Mysql, RabbitMQ. Objectives of the project: To notify the developer whenever there is an anomaly in performance Outcomes of the project: The developer is notified whenever there is an anomaly. Major Learning Outcomes: Learned to use JavaScript, Mongo, RabbitMQ. Brief Description of working environment, expectations from the company: The working environment is really good.The working hours are flexible.You can come and go whenever you want as long as you are completing the assigned work. They expect you to complete the assigned work before the deadline.	2016-17-sem2
Blue Jeans Network India Pvt. Ltd. , Bangalore	Feature development for the web meeting client team which is responsible for the inmeeting experience. Tools used (Development tools - H/w, S/w): Javascript, HTML, LESS. Objectives of the project: Adding new features to the inmeeting experience & improving its accessibility. Outcomes of the project: Objectives were achieved. Major Learning Outcomes: Front end engineering, better debugging skills. Brief Description of working environment, expectations from the company: Relaxed working environment is the best way to sum up life at blue jeans. Upper management is very approachable and takes all inputs seriously. Interns are treated on par with full time employees. Most interns work on production code bases and there are no strict deadlines.	2016-17-sem2

Company	Experience	Year
Blue Jeans Network India Pvt. Ltd. , Bangalore	Mentor Mentor comments: It's been a great time working with Shivam. He was instrumental in solving some challenging tasks of our BlueJeans Events Platform. He was highly motivated and dedicated to the Task assigned to him.Overall, his performance in the tenure of Software Development Intern is quite impressive and I wish him a very good luck in his future endeavours. Mentor comments: The team was moving or rewriting the project with the new technology stack. And Avinash had picked up the new project design very quickly and contributed in lot of key features.Re-write was a very heavy lifting task for the entire team, and Avinash had really contributed well sharing some of the loads of the team. He had contributed across the project and the few key areas are Permission flows, app Join flows and localizations which are very well delivered by Avinash. Overall Avinash is very sincere and dedicated in his work and quickly learns whatever is expected from him. Brief write-up on PS-II station : BlueJeans Network is a company that provides an interoperable cloudbased video conferencing service that connects participants across a wide range of devices and conferencing platforms. The interns are Junior Developer who are responsible for the following activites: Design, application front-end features that are part of every user's daily experience End-to-end implementation, including initial concept design, coding, unit testing and release to production The expectations are • Should be strong in Data structures, Algorithms and CS fundamentals. • Should be very good in Problem Solving abilities. • Must have good working knowledge in any one of the programming Languages like Java/J2EE,C/C++,C# Student	2019-20-sem2

Company	Experience	Year
Blue Jeans Network India Pvt. Ltd. , Bangalore	Our work is on a website, build to connect people with video call without installing any application using WebRTC. The main context our work deals with the rewrite of WMC code base which is in React and Backbone JS into UICore(named) with the use of Typescript, Mobx, Styled components and MVVM model for better usability and readability. we have worked on many feature implementations which includes smart meeting, CPF flow, and accessibility. I have also worked to fix many bugs during my process of being with WMC. Tool used (Development tools - H/w, S/w) : Jenkins, Typescript, Mobx, AWS, Node React and BackBone Js, Webpack, Sockect.io and styled Components. Objectives of the project : To Reduce the load time of a the website and make code base more readable. Major Learning Outcomes : Typescript, Mobx, AWS, Node React and BackBone Js, Webpack, and styled Components, sockect.io Details of Papers/patents : NA Brief Description of working environment, expectations from the company : The Working Environment is very good, The team is so friendly as well. Academic courses relevant to the project : Software engineering, OS and OOPS	2019-20-sem2

Company	Experience	Year
Blue Jeans Network India Pvt. Ltd. , Bangalore	In this internship , i worked on the backend micro-services of the enterprise. Our team developed and improved the the various microservices in the micro-service architecture of the BlueJeans Networks . My tasks included various JIRAs like adding audit logs to increase the events that are audited in the auditmicroservice . I also wrote unit tests for update user password class using mockito and used DBUnit to mock the database for testing. I also improved some APIs to support new parameters which were not supported before by the API. I also made some api's open for public access after getting approval from the security team. My final task was to write a Database script in python to clean up the database which had some inconsistent entries resulting from a previous bug. Tool used (Development tools - H/w, S/w) : JAVA , Jira, GIT, POSTMAN Objectives of the project : Development And Improvement Of BlueJeans Backend Microservices Major Learning Outcomes : I learned about how tasks are being alloted to employees using JIRA to the company employees and how an enterprise set time bound targets. I also learned cooperation among various teams that make an enterprise function. Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment of the enterprise was really good. All the people were very approachable and willing to help. The interns were treated as full time employees and were made to be a part of code that is actually used by the enterprise . Academic courses relevant to the project : Object Oriented Programming ,Computer Networks ,Database Management Systems	2019-20-sem2
Blue Jeans Network India Pvt. Ltd., Bangalore	I was looking for a career direction and to gain confidence in my abilities. My internship at BlueJeans Networks gave me the opportunity to try out an industry which I had not previously considered and broadened my horizons. It prepared me for the working environment, which people have struggled with having gone straight into work from university, enhanced my CV and helped me negotiate future jobs. Blue Jeans has grown immensely in the last year. Our CEO is someone that does not lack in transparency and integrity. Beyond our CEO, our management team and employee group is full of bright and collaborative people. People are very cooperative and helping. They actually care about the product and fellow colleagues. People are given full ownership of the project and are helped by mentors whenever required.	2015-16-sem2

Company	Experience	Year
Blue Jeans Network India Pvt. Ltd., Bangalore	I started interning here on 12th January 2016. We were introduced to basic architecture of theBluejeans Products: MeetMe & PrimeTime. After 3 days of rigorous training we were assigned our teams. I was allotted NonFunctional Testing team. I was in the tooling division. So, my job was basically to develop tools that automate i.e. ease the process of testing.I had to develop a webApp using ruby that did the analysis of the load & AWS tests done by the team. I started off by writing very small code snippets with the server being Sinatra. This exercise helped me understand ruby, APIs and how the webApps work. Eventually I went on to my own project: Intelligent Reporting where I had to write APIs in ruby and develop frontend(JS & Jquery) that generated reports using templates, comparing those reports and enabling the users to make new templates. I also learnt how to use mongoDB for projects.The final part of the project which happened in the last two weeks were fixing bugs faced by the users, adding information to make it usable by a first timers & documentation of the code.The experience at Blue Jeans was highly enriching and informative. It helped me gain my coding skills and made me better for the industry. I learnt how to communicate professionally. Now after the experience, I want to work as a full stack developer as I understand a complete webApp works and want to go into fulltime coding. The work culture of the office is extremely good. We with our teams go for regular outings making sure that we don't miss out on fun part either. The food provided is awesome there.It's a great opportunity to work at Bluejeans. There is always a balance of work & play. One thing to keep in mind is they have a hiring freeze now. Otherwise, the company does offer PPOs.	2015-16-sem2

Company	Experience	Year
Blue Jeans Network India Pvt. Ltd., Bangalore	This is about PS-2 experience at BlueJeans Networks, Bangalore. This station fulfills the purpose of the practice school as it helps the student not only to develop technically but also professionally. The company has a great work culture and people are very approachable. Be it your mentor or your manager, everyone is helpful and can be reached out easily for any help regarding your project.Coming to the work, it mostly depends on the team allotted. The company has 3 major teams. One deals with the front end UI of the website and app, next is the team which develops API's to support other teams and last is the team which does the core video processing related work.I am into the UI team and my work mostly is to fix the bugs in the existing code base and addition of new features to the already existing ones. The work may seem obvious and easy but has its own challenges. A good knowledge of JQuery, backbone.js and node.js would be helpful. A must to say, the code is very neatly organized and layered so that anyone looking into it for the first time can easily understand it. The code is easily scalable and maintainable.Apart from gaining technical knowledge you would also be exposed to the software engineering process which is learnt in our college. Write from the requirements analysis to the testing you can experience each and every stage of software development life cycle. The work is neatly distributed among different release cycles which is generally a period of two weeks.Apart from technical knowledge I also learnt how to work in a team and conduct our self in professional environment. Finally I would like to wrap up by saying that PS-2 at BlueJeans has been a very good learning experience. It provided me a good industry exposure and prepared me for the future.	2015-16-sem2

Company	Experience	Year
Blue Jeans Network India Pvt. Ltd., Bangalore	With a bloated ego we emerged from college confident that we had what it took to take on the world. Practice School 2 was where I realised that we didn't- we still had plenty to master. The learning curve was steep, the deadlines were short and the final product was a prize in itself. In six months, I can proudly say that I have learned ReactJS a library on top of Javascript so ridiculously well that I can start contributing to its codebase- when fresh out of college, I had little idea of Javascript itself. BlueJeans was a humbling experience. It taught me that there are way better coders than us hot blooded graduates- and we have something to learn from each of them. To quote Martin Fowler, "Any fool can write code that a computer can understand. Good programmers write code that humans can understand."- I learnt to write code that scales, code that's maintainable and readable- something I never factored was even important during my years of college. At the end of the six month long day, when your manager pats you on the back and tells you that you did a better job than he expected- it's a reward in itself- the work intensive hours, the endless brainstorming were all worth it. Deviating from my internship-end epiphany and coming to the company itself Bluejeans is a really good place to work at. The work is challenging and you get to learn a lot. The people are great and the food is amazing (and free). I was a little apprehensive about being allocated this station (there were "better" stations for my CGPA), but if I were to choose again, I would choose BlueJeans a hundred times over.	2015-16-sem2
Blue Jeans Network India Pvt. Ltd., Bangalore	BlueJeans has been a wonderful experience for me. I had great fun learning new technologies in these five months. This company is not all just about work. We have been to numerous outings as well as enjoyed various indoor and outdoor events such as scavenger hunt and football tournament. But the best part is the people working here. They have been very helpful since day one and are like totally chill. Overall it has been a fun ride for me.	2015-16-sem2

Company	Experience	Year
Blue Jeans Network India Pvt. Ltd., Bangalore	I did my PS2 at BlueJeans Network, Bangalore. It is a startup which provides a cloud-based video conferencing service that connects people without any time, place or device restriction. They supports a wide range of devices and conferencing platforms making their service very easy, compatible and affordable. Their aim is to convert every phone call to a video call. The work here is precisely designing the technology to make that happen.I was a part of the Desktop Media Team at Blue Jeans. My project dealt with video rendering enhancements. I started with understanding their plugin's architecture. I had to read up in detail about Win32 Programming, Direct3D Rendering and other renderers. I was able to identify algorithms for video quality improvements. I had past experience with Image Processing. But Video was a new domain for me. With the growth in media in current times, video quality improvement is an important field which is yet to be explored to its fullest. The team here at BlueJeans is very helpful and extremely enthusiastic about the work. The weekly sprint, daily status updates and company all-hands gave me an insight of the work culture. There are regular events and team outings to create a well balance between work and fun.This corporate exposure brushed up my knowledge about existing technologies and market terminologies. It has helped me evolve my thought process from a student's perspective to an employee's perspective. Overall it was a good learning experience for me.	2015-16-sem2
Blue Jeans Network India Pvt. Ltd., Bangalore	It's was a great opportunity for me to work for Blue Jeans Network which is a Bitsian startup. It's a very good company to work in, everything about the work culture and the people here are very helpful and I have learnt quite a lot here during the internship. I worked for the QA automation team for the Primetime team and I worked in API and UI automation. My main project was to automate the testing of web socket notifications where I had to make a new framework which will be used by the team henceforth. This is a great company where apart from work there are regular team outings, sports events, etc.The 5½ months practice school experience helped me to imbibe corporate culture. I have learnt to face complexities and to manage expectations, all in a fun and safe environment. The work has broadened my knowledge of programming which would certainly augment my future career prospects.	2015-16-sem2

Company	Experience	Year
Bosch Research and Technology center , Bangalore		2018-19-sem2
Bosch Research and Technology center , Bangalore	Industries like Bosch have with them a large magnitude of categorical time-stamped text data which needs to be analyzed to obtain insights. In this project we tackle the tedious task of extracting the most significant terms or "trends" in the text, in order to measure their growth in popularity over time. To accomplish this, we describe a novel "semantic infusion" method, which infuses special marker strings in the word vector space of the text, in order to locate these trending terms. We also demonstrate the power of our method by comparing its results qualitatively and quantitatively with those of a wellestablished algorithm, the Online Processing Variant of LDA. We outline a few industrial applications for our method which were tested so far. We then shift our focus to a different area of interest at Bosch: prediction of product recall incidents from complaints data of automobiles. In this task, we focus on developing a usable dataset, using a set of rules applied to existing complaint and recall data. We build a deep neural network classifier, pass this dataset to it, and aim to predict if a complaint against an automobile will result in its recall or not. We provide our results and a short analysis of our observations from it. Tool used (Development tools - H/w, S/w) : Python, Keras library, Word2Vec Objectives of the project : 1) Develop an automated method of extracting the trends from the corpus by introducing the concept of semantic trends. 2) Compare semantic trend results with the results of a well-established trend analysis algorithm, Online Processing Variant of LDA, to establish a qualitative and quantitative improvement of the semantic infusion technique. 3) Develop a classifier, specifically a bidirectional Long Short-Term Memory to identify whether a complaint is severe enough to warrant a recall of the product. 4) Prepare a dataset which can be directly used by the classifier, and observe how the predictive power of the model changes when it is trained with data from different time window sizes. Major Learning Outcomes : 1) Performing experiments to test the quality of results from an algorithm. 2) Documenting the complete project into a paper for a conference. 3) Preparing a dataset from existing resources to supply to a classifier. 4) Building a deep learning model to classify text. Details of Papers/patents : Submitted a paper to CIKM 2019. Brief Description of working	2018-19-sem2

Company	Experience	Year
	environment, expectations from the company : Working environment was relaxed. I was able to work at my own pace without strict timings and deadlines since it was a research center. My mentor worked closely with me to design and carry out research activities according to a timeline and always helped me out when I was stuck. He also encouraged me to submit the research work to a external conference. Other employees were also helpful and friendly. I got a good exposure to corporate world and I was also able to explore my research interests with like-minded and motivating individuals. Academic courses relevant to the project : Machine Learning, Information Retrieval	
Bosch Research and Technology center , Bangalore	We built a simple and flexible interactive segmentation model that segments foreground objects of a video sequence. Our baseline model is pre-trained on Imagenet weights, thereby applying the transfer learning technique. We went ahead and built a weak supervision pipeline from the baseline model and trained it on DAVIS 2017 train set. The challenge was to make our model learn from a scribble, which gives as minimal information of a desired object as a stroke, unlike semi supervised segmentation model which learns from a complete mask. We achieved this by additional skip connections in our model and preprocessing the scribble in our pipeline. Our model showed great results on DAVIS 2017 validation set, with average Jaccard value of 55.3 for 30 sequences and maximum being 80.5 for pigs sequence. Tool used (Development tools - H/w, S/w) : Software: Python Kerala, Hardware: Nvidia GPUs Objectives of the project : To build a segmentation model that tracks foreground objects in a video sequence Major Learning Outcomes : Hands on experience in Computer Vision applications. The work that entails in a corporate research industry. An opportunity to publish a paper, if one has worked on proof of concept. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Machine learning, Data Mining, Deep learning models	2018-19-sem2

Company	Experience	Year
Browntape Technologies Pvt. Ltd., Porvorim	1. Sales Analysis 2. E-commerce category research 3. Data scraping 4. Remittance Reconciliation Tools used (Development tools - H/w, S/w): MS Excel MS PowerPoint Data Miner Web Scrapper Objectives of the project: To analyze sales data to figure out flaws To generate research reports for sub categories among leading brands Outcomes of the project: Increase in sales Major Learning Outcomes: New tools learnt Development in professional spirit Exploration of new areas of business Brief Description of working environment, expectations from the company: Work environment is good No one puts much pressure. Company expectations are very high	2016-17-sem2
Browntape Technologies Pvt. Ltd., Porvorim	Account management is a dynamic work in which team has to keep a track on daily operation. Tools used (Development tools - H/w, S/w): MS Excel. Objectives of the project: To manage client daily operations and formulate strategies for their continuous growth through competitor analysis and promotions on different marketplaces. Outcomes of the project: Managed 9 clients over all major marketplaces. Major Learning Outcomes: Time management, Multi tasking. Brief Description of working environment, expectations from the company: Working environment twas good and supportive.	2016-17-sem2
Bundl Technologies Private Limited (Swiggy) - Nontech ,	Bangalore	2018-19-sem2
Bundl Technologies Private Limited (Swiggy) - Nontech ,	- Primarily, I worked on optimizing area launches for Swiggy. - Another task of mine was to prepare extensive and insightful reports on the performance of around 12 Swiggy cities. - Also, I worked to open Swiggy in whole of Kerala in the end. Tool used (Development tools - H/w, S/w) : Dbeaver, Power BI, Excel Objectives of the project : To optimise city and area launches for entire country Major Learning Outcomes : Details of Papers/patents : Brief Description of working environment, expectations from the company : The company is really good in terms of culture, with qualified, helpful and intelligent people as your peers and superiors. One will surely learn a lot if one does come here. The working hours easily stretch to 10 on regular days. Chances of PPO depend chiefly on your manager and company openings.(People coming in the 1st sem, choose accordingly) Academic courses relevant to the project : Principles of Management	2018-19-sem2

Company	Experience	Year
Bundl Technologies Private Limited (Swiggy) - Nontech ,	Worked in the operation analytics team. Analyzed the performance of delivery executives and worked on their delivery related metrics like speed, delivery time compliance, etc. Tool used (Development tools - H/w, S/w) : Excel, SQL, python, R Objectives of the project : To enhance the performance of the delivery executoves and looking into the issues they face. Major Learning Outcomes : Business, analytical and technical learning Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : Healthy learning environment with helpful colleagues Academic courses relevant to the project : Business analytics based courses	2018-19-sem2
Bundl Technologies Private Limited (Swiggy) - Nontech ,	I am working on cost per delivery reduction of Swiggy POP orders. The work involves devising strategy and aligning all the stakeholders to get it executed. I considered all the factors that contribute to delivery cost and the corresponding levers that we have. For each lever, I considered the pros and cons of moving it on business metrics (like number of orders, number of transacting users, etc.) and devised a strategy accordingly. I also wrote the Standard operating procedure for executing it and published it to the concerned stakeholders. Apart from that, we were also tracking the impact of execution on business metrics in a dashboard/sheet. The strategy was improved in an iterative manner after prioritising business goals and receiving feedback from the stakeholders involved. The learnings from this were used before scaling the process to other places and made into a playbook. Tool used (Development tools - H/w, S/w) : Excel, SQL, Word Objectives of the project : To reduce the cost per delivery for Swiggy POP orders Major Learning Outcomes : Stakeholder management, devising business strategy, analytics Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Professional Ethics, Principles of Economics, PAVA	2018-19-sem2

Company	Experience	Year
Bundl Technologies Private Limited (Swiggy) - Nontech ,	Setting up new processes, Management and marketing Tool used (Development tools - H/w, S/w) : powerBI, SQL, Excel Objectives of the project : Execute marketing and improvising SOPs Major Learning Outcomes : Management, Understanding scenarios and meeting deadlines Details of Papers/patents : None Brief Description of working environment, expectations from the company : Very steep learning curve Academic courses relevant to the project : POM	2018-19-sem2
Bundl Technologies Private Limited (Swiggy) - Nontech ,	- Primarily, I worked on optimizing area launches for Swiggy. - Another task of mine was to prepare extensive and insightful reports on the performance of around 12 Swiggy cities. - Also, I worked to open Swiggy in whole of Kerala in the end. Tool used (Development tools - H/w, S/w) : Dbeaver, Power BI, Excel Objectives of the project : Major Learning Outcomes : Details of Papers/patents : Brief Description of working environment, expectations from the company : The company is really good in terms of culture, with qualified, helpful and intelligent people as your peers and superiors. One will surely learn a lot if one does come here. The working hours easily stretch to 10 on regular days. Chances of PPO depend chiefly on your manager and company openings.(People coming in the 1st sem, choose accordingly) Academic courses relevant to the project : Principles of Management	2018-19-sem2
Bundl Technologies Private Limited (Swiggy) - Nontech ,	Bangalore	2019-20-sem2
Bundl Technologies Private Limited (Swiggy) - Nontech ,	Improved growth on Swiggy's SUPER subscription program and stream lined processes to improve efficiency Tool used (Development tools - H/w, S/w) : SQL, Advanced Excel Objectives of the project : Improve growth on the Swiggy loyalty program Major Learning Outcomes : Proficiency in SQL, Stakeholder Management, Understanding business economics Details of Papers/patents : Brief Description of working environment, expectations from the company : Great work culture. The company works in a very structured manner and people stick to deadlines. Academic courses relevant to the project : POM, POE, C programming	2019-20-sem2

Company	Experience	Year
Bundl Technologies Private Limited (Swiggy) - Nontech ,	Worked on Hyperlocal Growth project to improve consumer perception of Swiggy by improving critical metrics. Also worked on building up new competition intelligence projects & working on regular project's run in the field. Worked on ProfitLoss analysis of area extension project Tool used (Development tools - H/w, S/w) : Microsoft Power BI, Tableau, Mapbox, Excel, MySQL Objectives of the project : Unlocking growth potential at hyperlocal level through identifying target zones. Major Learning Outcomes : Improved ownership skills, stakeholder management, time management, presentation skills, analytical skills Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment in the company is really positive. The people are really helping and they give interns their time to learn and then work on the problems. Working in Swiggy has been a real learning experience with great intellectual minds around me. Academic courses relevant to the project : POE, POM	2019-20-sem2

Company	Experience	Year
Bundl Technologies Private Limited (Swiggy) - Nontech ,	I worked in the Brand Factory at Swiggy, the chief of which was to manage a pilot for virtual brand creation in some cities and working on growth for existing Brands. The pilot involved talking the team through the whole process, conducting weekly review calls, having calls with partners and setting up the brands for success. The Growth aspect involved studying different accounts in terms of Visibility, Menu,Pricing, Discounting, Competition Bench-marking and Brand Positioning and finding the best fit for each account. I also worked on revamping photo-shoot guidelines owing to my fondness for films, and I developed several data based models to improve brand performance. I studied some brands for Access, and presented an altered target setting for performance as well. Tool used (Development tools - H/w, S/w) : SQL, Excel, Photoshop, PowerPoint Objectives of the project : - To manage a Pilot on Virtual Brand Creation in a few cities, to drive growth for existing brands, develop data-based models for betterment of business Major Learning Outcomes : A comprehensive understanding of Data Analytics, Project Management, Photography studies, Pricing & Discounting Strategies, Budgeting, Expansion Plan formulation and Business Development Details of Papers/patents : Brief Description of working environment, expectations from the company : The Brand Factory Team was a space that encouraged creativity, and allotted me a project suited to my learning and skill set. The organization is a very encouraging place to work in, with everyone being cordial and conversational. The leadership team are also very approachable, taking interest in making the environment as comfortable as possible for the interns. The organization encourages Ownership of work and a Bias for action. The team's expectations are realistic, with minimal work outside office hours and no work on weekends. The social events are tremendously enjoyable, and the events are very welcoming. All in all, Swiggy is a wonderful experience for someone just starting their career, and I would highly recommend it for PS2. Academic courses relevant to the project : Principles of Management, Principles of Economics, Business Communication, Critical Analysis of Literature and Cinema, Optimization	2019-20-sem2

Company	Experience	Year
Bundl Technologies Private Limited (Swiggy) - Nontech ,	I worked in the New Supply - Ops division of Swiggy. My team took care of the daily operations of Swiggy Cloud kitchens. Most of my work involved analyzing the processes implemented in the kitchens and trying to come up with ways to improve these processes. Major projects I was given involved analyzing and trying to reduce the complaints by customers. Tool used (Development tools - H/w, S/w) : Excel Objectives of the project : Reduction of Missing complaints in cloud kitchens Major Learning Outcomes : Operations management, Supply Chain Management, Analytical Skills, Problem structuring and Problem-solving skills Details of Papers/patents : Brief Description of working environment, expectations from the company : The work environment is very good. Everyone around is approachable and are always ready to help you. You will be given real time projects even though you are an intern and the analysis you make will also be presented to higher ups in the organization. All teams know that you are from an engineering background, so they do not expect you to know the analysis techniques etc., but once you join you are expected to learn and develop the skills required quickly. Your mentors will spend time with you and make sure you understand the context i.e. why you need to do a particular project and the skills needed for the project. They also teach you some analytical techniques that you need to finish your project. Academic courses relevant to the project : Principles of Management	2019-20-sem2

Company	Experience	Year
Bundl Technologies Private Limited (Swiggy) - Nontech ,	Worked from scratch on new product launch. Devised entire Go-To-Market plan for the product which involved supply strategy, marketing, product development and growth strategy. Conceptualized process flows for data ingestion and sized the available market opportunity for the product. Estimated and optimized targets for the launch and defined check and success metrics. Tool used (Development tools - H/w, S/w) : Excel, SQL, R Objectives of the project : To plan Go-To-Market Strategy of a product by working on different aspects of supply and growth strategy. Major Learning Outcomes : Business Understanding, Product Management, Data Analytics Details of Papers/patents : Brief Description of working environment, expectations from the company : Swiggy is one of the most consumer-friendly product available in the market. Environment is very enthusiastic and friendly. Appropriate mentorship is provided at every stage of the project. Team believed in high ownership of work and involved me in crucial decisions. Early visibility on skills required from company can be beneficial. Academic courses relevant to the project : Principle of Economics, Business Analysis and Valuation	2019-20-sem2
Bundl Technologies Private Limited (Swiggy) - Nontech ,	Understanding customer behavior and reactivating dormant customers through experiments. Changing delivery fee across cities to gain additional revenue. Increasing the AOV of the platform. Tool used (Development tools - H/w, S/w) : SQL, Power BI, Excel Objectives of the project : To increase delivery fee revenue across the platform. Reactivating dormant customers back on platform. Increasing the AOV for the platform Major Learning Outcomes : Strategy and growth; SQL; Designing experiments; Leading marketing campaigns; Data analysis; Details of Papers/patents : - Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Principles of economics, supply chain management	2019-20-sem2

Company	Experience	Year
Bundl Technologies Private Limited (Swiggy) - Nontech ,	Swiggy- Sides and Drinks is a service provided by the Value Added services team with a motive of enhancing the consumer experience and at the same time, provide a better value proposition to the restaurant. The project can be divided in two parts: The Supply part focuses on setting up a B2B marketplace for food items such as Trail Mixes, Packaged Beverages, Artisanal Yoghurt, etc. The demand part deals with usage of menu digitisation properties of the Swiggy food App in order to create a demand for these food products. Tool used (Development tools - H/w, S/w) : Snowflake, Excel, Google Sheets Objectives of the project : Improve the Average Order Value of Swiggy Platform, Incremental Revenue Stream for Swiggy Major Learning Outcomes : Learnt how to set up a business from end to end, Improved Professional Communication Skills, Product Management, Marketing Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : None	2019-20-sem2

Company	Experience	Year
Bundl Technologies Private Limited (Swiggy) - Nontech ,	Work can be majorly categorized into two categories, first being catalog management and the other being business analytics. As for the first, the entire catalog management for the National Alliance Brands was taken care of during the entire course of the project. As a part of this, I have worked on Bundl's own catalog management system and learned a lot about the approvals required to start a restaurant in a particular area especially on an cloud kitchen platform & have tried to understand the Correct Menu Strategies, may it be in the form of the right food images or the right descriptions in the menu. As a business analytics employee, I worked for the entire duration of the internship on SQL and continuously delivered the partner with the required analysis to grow the business. I was overall responsible to handle the growth of 5 brands and 74 outlets in general. During the course of my internship the orders for the brands grew by 56% while the GMV for the brand grew by 112%. Tool used (Development tools - H/w, S/w) : SQL, Excel, Catalog Objectives of the project : The project focused on growing the various National Alliance brands partially owned by Bundl Technologies Pvt. Limited by regular analysis of performance and providing an in-depth analysis of its own performance and performance of the platform. Major Learning Outcomes : Menu Excellence, Catalog Management, Business Analytics, Consumer behavior analysis Details of Papers/patents : Brief Description of working environment, expectations from the company : Swiggy has a friendly working environment. Managers and top management are easily approachable and willing to teach. Academic courses relevant to the project : POE, POM, International Business, Operations Research	2019-20-sem2

Company	Experience	Year
Bundl Technologies Private Limited (Swiggy) - Nontech ,	Swiggy GO is new initiative and was in testing phase when I joined the team. So helped in checking different metrics required to check whether the product is ready to launch. Found problems with the flow and worked with different teams to solve the issues. After launch tracked the growth of business by analyzing different metrics to ensure everything is working efficiently and customers have good experience. In operations, worked on different issues faced by delivery partners and different metrics affected by it. For further growth of the business worked on categorization of the use cases and requirements of the specific features in product for merchants. Tool used (Development tools - H/w, S/w) : SQL, Excel, Power-point Objectives of the project : Launch and Growth of Swiggy GO Major Learning Outcomes : Business Development and growth, Data Analytics, SQL, Project Management Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Supply Chain Management	2019-20-sem2
Bundl Technologies Private Limited (Swiggy) - Nontech ,	I have done 2 projects during my internship. 1. My first project is ops based project I had closely worked with the Operations Team and learned how the Delivery Executive works, and the restaurant supply system works. 2. My second project is to improve the customer experience by giving awareness/visibility to various internal and external stakeholders my creating various dashboards related to customer experience. Tool used (Development tools - H/w, S/w) : Advance Excel, Excel VBA, SQL and Power BI Objectives of the project : To improve the Customer Experience using help of both Ops and Supply Major Learning Outcomes : 1. Gained knowledge on advance excel. 2. Gained hands-on experience in writing SQL queries for data fetch and analysis of the procured data to solve real-time problems. 3. Developed automated reports using Excel VBA and python codes. 4. Developed enhanced Details of Papers/patents : Brief Description of working environment, expectations from the company : The work culture of the company is good. The team is very helping in nature. Academic courses relevant to the project : None	2019-20-sem2

Company	Experience	Year
Bundl Technologies Private Limited (Swiggy) - Nontech ,	P1: To assess Pop performance in a city by quality of Pop supply at a polygon level using a score calculated based on the various attributes listed below Cuisine Breadth Cuisine Depth Revenue Score Quality (ratings, RDC, IGCC % of W&X category restaurants. Other metrics like packaging, hygiene, OOS, Ar2P(cuisine level benchmark) will be added later.) P2: To generate Pop acquisition list which Can increase the quality of supply at a grid polygon level (2*2 grid polygons considered to ensure that supply density is high) Can be easily read/interpreted by SMs for seamless acquisition Tool used (Development tools - H/w, S/w) : Excel, SQL, ACCESS Objectives of the project : To assess Pop performance in a city by quality of Pop supply at a polygon level Major Learning Outcomes : The final view is restaurant oriented making it similar to BAU modus operandi for acquisitions leading to seamless execution on ground The restaurants are prioritized based on the incremental benefit they can offer leading to better RoI of sales bandwidth Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : NONE	2019-20-sem2

Company	Experience	Year
Bundl Technologies Private Limited (Swiggy) - Nontech ,	1. The work majorly focused on business development. 2. The newly launched business line called Swiggy GO had multiple verticals under it, namely, Business, Operations, Expansion and Growth 3. Under business, the major work was data based where one had to pull data and crunch numbers and help in understanding the leadership by giving timely insights and updates. 4. In Operations, it was focused on the delivery fleet and analysing the metrics that were dependent on them. Involved scrutinizing of the training modules and improving serviceability of the business line. 5. Growth involved understanding the customer requirements and positioning the product accordingly in terms of the pricing, offers, marketing initiatives etc 6. Visiting & Launching of new cities and ensuring all key customer experience and operational checkboxes were ticked before launching. Tool used (Development tools - H/w, S/w) : SQL, Excel Objectives of the project : Developing the new business line and supporting the various teams in achieving the key targets Major Learning Outcomes : 1. Communicated effectively & worked with team members to figure out the possible ways and means to the situation and accordingly taking appropriate decision. 2.Proactively understanding the business nuances and applied it to meet the end objectives. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Business Analysis, Principles of Economics & Management, Business communication etc	2019-20-sem2

Company	Experience	Year
Bundl Technologies Private Limited (Swiggy) - Nontech ,	Swiggy's Value Added Service charter aims at ease of doing business for our partners across the restaurant life cycle by improving both Top line & Bottom-line. The aim is to help the partners expand to newer locations within a city or moving into a new city and augment their source of revenue. Thus, also providing an incremental source of income to Swiggy. The project involves working with different metrics, different departments (both internal and external), and different software, which gave an immense learning opportunity. Also, had the opportunity to work on various pilots/proof of concepts wherein the outcomes were two-fold: a) improve the reach of different brands b) improve restaurant partner's experience by increase their Average order value by Menu Augmentation. The work also involved coordination with Analytics and Finance team to work on additional benefits for Sides and Drinks, along with measuring the impact of those benefits, and how they should be scaled up in future. Tool used (Development tools - H/w, S/w) : Excel, SQL Objectives of the project : To bridge the meal gap in restaurants menu and also generate an additional revenue stream for Swiggy. Major Learning Outcomes : Management, Communication Skills. Details of Papers/patents : Brief Description of working environment, expectations from the company : The company has a good working environment in terms of learning experience. The people here are quite friendly and are ready to help you out to learn new things and are open to share information. Academic courses relevant to the project : Principle of Economics, Business Analysis and Valuation.	2019-20-sem2

Company	Experience	Year
Bundl Technologies Private Limited (Swiggy) - Nontech ,	Working with the expansion team, our primary goal was to drive growth in 400+ cities across India. I worked with my manager and together we coordinated with city teams across India, with the relevant stakeholders and made use of various growth levers like breakfast initiation, long distance orders, discounting strategies, commission upsells, demand supply-gap study, launch support, etc. Along the course of the project, I learnt extensive data analysis, stakeholder management, and economics of the business. Tool used (Development tools - H/w, S/w) : SQL, Excel Objectives of the project : To drive growth in the newly launched cities using various growth levers, coordinating with various stakeholders and analysing data. Major Learning Outcomes : Starting from launch support, to being an active member in spearheading the growth POD campaign, and undertaking various projects like breakfast initiation, discounting strategies, MoU digitization, etc., I have learnt a great deal about stakeholder management. Details of Papers/patents : - Brief Description of working environment, expectations from the company : The working environment was quite electric. My manager and mentors were passionate and easy to approach, and eager to help and make me learn new things. The culture is quite action-driven and promoted taking ownership for your work, which is a very good approach. If I convert and get a PPO I will be joining as a business associate. Academic courses relevant to the project : Principles of Econimics	2019-20-sem2

Company	Experience	Year
Bundl Technologies Private Limited (Swiggy) - Nontech ,	i) One Major Project that I was program managing the setting up a communication link between the Business and Operations team (for around 200cities) - here I conducted reviews between both the sides, took followups for actions and did additional analysis from the Operations front for various reasons. ii) Another major project that I was entrusted with was that of handling and managing the Delivery Fees of about 400 cities - this being a good lever for both growth and Unit Economics, so proceeding with caution while dealing with this tradeoff. Also creating strategies keeping this in mind and analyzing the impact caused once the strategy goes live. Tool used (Development tools - H/w, S/w) : Excel, SQL Objectives of the project : i) Setting up communication link so that things get resolved. ii) Increase in Monetization through Del Fee Major Learning Outcomes : Stakeholder Management, Program Management, Strategy, Business Growth and tradeoff with Unit Economics Details of Papers/patents : - Brief Description of working environment, expectations from the company : The working environment is very dynamic, the people here are full of energy and compassionate about their work which is a very motivating environment to be in. Academic courses relevant to the project : PPC, SCM, POE (None of them had that much relevance)	2019-20-sem2

Company	Experience	Year
Bundl Technologies Private Limited (Swiggy) - Nontech ,	My work was majorly in the field of data science. I had to do analysis like - user segmentation analysis, cohort analysis, root cause analysis, etc on a daily level. The tools used were SQL (Snowflake), Microsoft Office and Google suite. Swiggy, Bangalore is the company's HQ, so for any schemes that was formulated and then rolled out PAN India basis my analysis had to monitored and kept track of. So telephonic conversations and applications like Slack, Hangouts & Meet are used on a daily basis. I was also allocated a Sales Project where other than data extraction, I also had to talk to restaurant owners either on phone call or by arranging a meeting. Under this, I converted 80+ partners for a promotional campaign hosted by Swiggy and Pepsi together. Graphics designing was occasionally required. Tool used (Development tools - H/w, S/w) : Snowflake for SQL, Microsoft Office and Google Suite of apps Objectives of the project : First Project - To use data analysis techniques to predict the return on investment (ROI), growth and new user acquisition for restaurants not participating on Ads for strategic planning based on segments. Major Learning Outcomes : Data Analysis and Coding Skills, Communications skills needed for Sales Pitching, Leadership and Team-work skills, Time Management Details of Papers/patents : Brief Description of working environment, expectations from the company : The work environment is very close to a start-up but with slightly better organized teams for distinct tasks. My team was very encouraging towards improvement of my coding and analytical skills in the beginning which was extensively used during the course of PS. Team parties and other social events are monthly organized which are fun to attend to. Academic courses relevant to the project : Quality Control, Assurance and Reliability, Production, Plan & Control, Supply Chain Management	2019-20-sem2

Company	Experience	Year
Bundl Technologies Private Limited (Swiggy) - Nontech ,	I was working in the Swiggy Stores department. My work revolved around data crunching, root-cause analysis and a little bit of operations as well. Projects: 1) Root cause analysis of Unfulfilled Orders 2) Demand Projection & Supply Planning Tool used (Development tools - H/w, S/w) : SQL, Microsoft Excel Objectives of the project : To improve customer experience by improving metrics like fulfillment rate, availability, delivery times, etc Major Learning Outcomes : Learnt tools like SQL & Excel. Written communication skills, Problem Structuring, Project Management, Root Cause Analysis. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Supply Chain Management, Principles of Management	2019-20-sem2

I was working in the Swiggy Stores department. My work revolved around data crunching, root-cause analysis and a little bit of operations as well. Projects: 1) Root cause analysis of Unfulfilled Orders 2) Demand Projection & Supply Planning

Company	Experience	Year
Bundl Technologies Private Limited (Swiggy) - Nontech ,	I am part of the Non-Delivery Use Case (NDU) team (New Division in Swiggy) from the inception, where our aim is to launch the Swiggy Food Court (SFC) product in areas such as Airports, Malls, Highways, Theaters etc. I was in touch with key stakeholders from major organizations like Bangalore International Airport Ltd, where I was project managing the complete pilot This included pitching our product to our client, coordinating with internal as well as client's teams and most importantly, I was a key stakeholder in all discussions to shape the project in the right way (From Stakeholder meetings to Internal Alignment meetings with COO Swiggy and even part of negotiations with both the party's Legal team, Marketing team etc.! Tool used (Development tools - H/w, S/w) : Software: Snowflake - For retrieving relevant data PowerBI Dashboard - For retrieving relevant data MapBox - Geo-mapping locations to retrieve data Objectives of the project : Implement new product developed by our team to test our proposed use case - Enable Swiggy to be part of everyone's life by catering to their needs wherever they go (Malls, Airport, Highways, Theaters, etc) Major Learning Outcomes : We validated the following points: 1. Verified that our product adds immense value to our customers (Queue less, Saves time etc) 2. One of a few solutions that is UE positive from day 1 3. If we scale up, we will surely be a lot more sustainable. Details of Papers/patents : Brief Description of working environment, expectations from the company : I joined Swiggy as we are technically a Startup - Hence more exposure: But the extent of trust and exposure that our teams have bestowed to an intern like me, allowing me to take my own decisions is absolutely amazing and I am very grateful for this!! With respect to my project, deploying our new product Swiggy Food Court (SFC) at Bangalore International Airport -- Team allowed me to initiate a startup and watch it grow!! Academic courses relevant to the project : Effective Public Speaking, Supply Chain Management, Cross Cultural Studies,	2019-20-sem2

Company	Experience	Year
Bundl Technologies Private Limited (Swiggy) - Nontech ,	There were largely three projects i was involved in during my internship 1) Efficiency- I had to build a model to find the efficiency of the discounts shown on the app. 2) Effectiveness- I had to develop a business which tells how effective are we in giving discounts on app which was further used to give targets to sales managers all over India. Tool used (Development tools - H/w, S/w) : SQL,Excel,Python Objectives of the project : To determine effectiveness and efficiency of discounts Major Learning Outcomes : I learnt how to do data analysis over a large chunk of data and think in a quant funnel view to solve a business problem Details of Papers/patents : None Brief Description of working environment, expectations from the company : The team was simply amazing. My team thoroughly believed in work hard. Academic courses relevant to the project : POE	2019-20-sem2

Company	Experience	Year
Bundl Technologies Private Limited (Swiggy) - Nontech ,	The business performance of the Private Brands had to be tracked on a day-to-day basis in order to be able to identify dips and critical signs before it is too late, and to take necessary corrective actions. I took upon the project to automate this entire exercise. The model automatically updates the pivot tables, runs the macros and converts the data into a consumable format. The entire process has become much more efficient owing to the robustness of the model. The automation of this reporting process has led to devoting more time on other productive activities such as conducting deep dives and more thorough analysis. When the leadership and management set the targets for the Private Brand kitchens, they do so at a month level. However, this is not a realistic target since it has not been broken down on a day-to-day level. There needed to be a constant phasing out of the targets that give the business teams at different cities an idea of day-to-day goals. I built another model that slowly ramps up the targets such that by the end of the month, we achieve the stipulated targets. This was done by taking into account the rate of growth of the business in the previous month and the differential AOV and GMV during weekdays and weekends across each city. Sizing of the breakfast and late-night slot was also done to understand the market potential. Tool used (Development tools - H/w, S/w) : Softwares: Microsoft Excel, SQL, Snowflake tables Objectives of the project : To build a robust model that provides a snapshot of the business performance through which dips and slumps in business can be quickly identified and corrective action be taken. Major Learning Outcomes : This first stint in corporate has been marked by various learning outcomes, memories and experiences. Not only did I acquire the hard skills for completing the projects such as coding in SQL, mastering advanced MS Excel techniques and the different method Details of Papers/patents : A policy paper on why the home-style brand 'homely' won't work in Coimbatore was published internally. Brief Description of working environment, expectations from the company Academic courses relevant to the project : Technical Report Writing, Supply Chain Management, Project Appraisal	2019-20-sem2

Company	Experience	Year
Bundl Technologies Private Limited (Swiggy) - Nontech ,	The aim of REALM and EI2 project is to build a sustainable launch model for tier-4, tier-5 cities with a very low cost target of 40k and. The guardrails set for this project were launching the cities remotely without any Swiggy launch manager, sales manager or field recruiter going to the city by exploiting online channels like Restaurant and Delivery Executive on-boarding using Whatsapp and e-mail. Another channel of on-boarding through tele-calling is employed to push the leads to communicate through Whatsapp. Total of 5 cities were launched. 12 more cities were project managed. The impact of platform level cancellation initiatives on 408 emerging India cities was analyzed. Tool used (Development tools - H/w, S/w) : Snowflake, Excel Objectives of the project : Creating a model with reduced launch cost and fixed operational cost owing to the low potential of the cities. Major Learning Outcomes : Project Management, Resource Management Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Principles of Management	2019-20-sem2
Bundl Technologies Private Limited (Swiggy) - Tech ,	Bangalore	2018-19-sem2
Bundl Technologies Private Limited (Swiggy) - Tech ,	I worked with data science team of the company. I built model for real time prediction of orders. The objective of the project was to predict the number of orders that will come in next 30-mins from a restaurant. I started our with machine learning algorithm gradient boosting for predictive modelling using various relevant features. Later on, in order to improve the coverage percentage I used deep learning algorithm long short term memory. Tool used (Development tools - H/w, S/w) : MYSQL, PYTHON Objectives of the project : To predict the number of orders about to come in next 30-mins from a restaurant Major Learning Outcomes : I learnt to extract data and build models using real life industrial data. Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : The working environment in the company is really positive. The people are really helping and they give interns their time to learn and then work on the problems. Working in Swiggy has been a real learning experience with great intellectual minds around me. The people focus more on coming up with new ideas and trying it out. Academic courses relevant to the project : N/A	2018-19-sem2

Company	Experience	Year
Bundl Technologies Private Limited (Swiggy) , Bangalore	1. Increasing disposition accuracy. 2. Decreasing IGCC cost. 3. Sla+30 Analysis. Tools used (Development tools - H/w, S/w): Excel, Qlikview, sql, Tableau. Objectives of the project: 1. Increasing disposition accuracy. 2. Decreasing IGCC cost. 3. Sla+30 Analysis. Outcomes of the project: 1. Increased disposition accuracy. 2. Decreased IGCC cost. 3. Sla+30 Analysis: Not impletemented yet. Major Learning Outcomes: Business Analysis. Brief Description of working environment, expectations from the company: 1. Flexible, Friendly environment.	2016-17-sem2
Bundl Technologies Private Limited (Swiggy) , Bangalore	Worked on late night delivery and expansion of area timings of 100 areas in 8 cities. Tools used (Development tools - H/w, S/w): Qlikview, Tableau, SQl, Excel. Objectives of the project: Increasing the order growth in late night segment which after 11:00 PM in 8 cities in india. Outcomes of the project: Increased the operational timings of 88 areas and accomplished the 120% growth in orders after 11:00 PM. Major Learning Outcomes: Team Management, Business Analytics and Project Management. Brief Description of working environment, expectations from the company: learning curve is steep here, friendly and flexible.	2016-17-sem2
Bundl Technologies Private Limited (Swiggy), Bangalore	Through this internship experience, I learnt how to use various tools such as Excel, MySQL, HTML and social media ad platforms. I believe that the skills I've acquired through the course of the internship build a strong foundation for future projects that I'd like to work on. In addition to the above, this experience has taught me to work and manage a team in a professional manner. Swiggy is a fast-paced startup where certain processes happen at break-neck speed and I've learnt to deal with stressful situations in a calm and collected manner. This internship has also made me realize my interest and aptitude for the field of marketing. This has made me plan my career accordingly. I plan on working for a few years and then pursuing an MBA in marketing. My biggest achievements in this internship were to be able to optimize communication between the central and city teams and automation of design processes. I have also obtained a PPO from the company and will be joining as a full-time employee from July onwards.	2015-16-sem2
Bundl Technologies Private Limited (Swiggy), Bangalore	Swiggy has developed an android application and a website for ordering food from restaurants online through website. The customer places an order using mobile phone or computer. The placed order is assigned to a delivery boy	2015-16-sem2

Company	Experience	Year
	either automatically by order processing system or manually from UI dashboard. I worked on the automated order processing system of Swiggy. My project involved working on the components of the full stack of software that deals with automated order processing. I worked on multiple features related to improving the performance of the system and optimising the cost and time of order delivery. The skill sets required for the projects were Core Java, spring, Hibernate, Django, Python, HTML, Javascript, Jquery, Redis, MySQL and RabbitMQ. Few of these skills, like Core Java, was learnt from my previous work experience and academic projects. For web development and technologies like Spring and Hibernate, I learned from training videos and internet resources. I have read Django from Django documentation. In the initial days, it was very tough to get used to the newer technologies like Django. My mentor and my team-mates helped a lot during the course of internship. My learnings from the PS-II experience is on the following areas – Software development skills, Software Design Skills and Soft skills. In terms of software development skills, Swiggy followed the lean methodology of developing a software feature in the shortest possible time without compromising on the quality. Object oriented programming languages and frameworks are being put into great use for rapid application development. In terms of Software Design, I practically learnt about how to make independent applications to talk to each other through messaging or through a common persistent storage like databases. This lead to developing independent smaller components and thus increasing the stability of the software system as a whole. In terms of soft skills, I learned good email communication, following up on work items pending with other teams, pro-active communication and presentation skills and verbal discussions. The technology stack used at Swiggy is very recent and getting to use all the recent technologies together for building a complex system is a great learning for me. My major accomplishment during the internship is the software developed for generating cash report of each food order. It is one of the critical piece of software delivered during the PS-II internship. It is used by the finance team of Swiggy heavily to validate the cash inflow/outflow of every food order.	

Company	Experience	Year
Bundl Technologies Private Limited (Swiggy), Mumbai	A quick online search for the word Swiggy throws up, "something unbelievably legitimate and real." This was definitely how my year long experience at this budding startup was. It shaped me to actively and innovatively handle challenges as an indiviual as well as the part of a team. I joined Swiggy as a PS2 intern in July 2015 in the same week that Swiggy launched in Mumbai. In the first semester I worked as a part of the launch and expansion team to establish Swiggy's foothold across the city. We worked to evaluate and categorize target accounts and on-board them on the platform accordingly. While managing these accounts, we also improvised and ran marketing campaigns to increase visibility. In the second semester, I shifted to the operations team and helped setup various SOPs in place to improve operational efficiency in line with the rising demand for the service. The work here was very data driven and the theoretical knowledge I had gained as part of my Mathematics curriculum in college stood me in good stead. I also had to learn MS Excel and SQL to implement the desired data analysis. Swiggy's biggest strength was its team. Being a Bitsian startup, it was a great experience to have your college seniors as mentors. I was given complete ownership for the work I was tasked with which in turn made me accountable for my actions and, thought me the self-discipline required in the industry. Since I was a part of the expansion phase of Swiggy's short history, it was exciting to experience the rigors of working at a fast-growing startup. The Practice School II program provided me with a unique opportunity to be a part of a company which grew from its nascent stage to become one of the leaders in its segment within the span of a year.	2015-16-sem2
Bundl Technologies Private Limited (Swiggy), Mumbai	I completed a one year long Practice School-II with Swiggy, Mumbai. The overall experience of working in this hyper-growth startup and seeing it transform from a nascent startup company to a leading player in the food-delivery market has been an absolutely brilliant one. During the last one year, I have sequentially worked on multiple work-streams, each giving a lot more ownership and learning than the previous one. I started off the first semester by helping the launch team start the business in the city of Mumbai. This was what we called a 'Startup within a startup' experience and involved doing a variety of tasks viz. taking in the first ever hungry customer call at Mumbai office, helping on-boarding efforts for delivery boys and even delivering an order when we ran out of enough delivery supply! Within one	2015-16-sem2

Company	Experience	Year
	month of the launch, I was transferred to the operations team. Here I was tasked to work with the operations management team to help setup and implement scalable processes to ensure business serviceability across the Mumbai region. This basically involved drafting SOPs, training the on-ground teams and developing data dashboards for continuous monitoring. Over the period of the next four months, I took complete ownership of multiple modeling related work-streams in the operations team including payout incentives for delivery executives, supply planning for hiring targets and even fraud detection algorithms for absconding delivery executives. These 6 months of on-ground operations coupled with the experience of large data management gave me an invaluable insight into the nuts and bolts of the food delivery business. With 6 months of on-ground operations experience under my belt, I volunteered to work with the central leadership team based out of Bangalore. I was assigned to work as an analyst to the General Manager for Vendor Management. This gave me the opportunity to get a more holistic bird's eye view of the entire countrywide operations. I could make significant contributions to a major cost cutting project focused on improving vendor KPIs across all the 8 cities in India. In the last 6 months I focused on developing dashboards for identifying problematic vendors, carried out feasibility studies on the impact of cutting down "low business, high ops issues" vendors and assisted in driving a quarter long change management exercise where I was directly reporting to the leadership team of the company. This gave me a firsthand experience of thought processes that go into managing a large startup like Swiggy. Successfully managing the competing interests of multiple stakeholders while being steadfastly focused on the core company goals has been the most important takeaway from this experience. To summarize, the experience of being a part of startup like Swiggy has been quite a fulfilling one. It has given me a great deal of insight into how sustainable companies are built brick by brick. Moreover, the very range of exposure; from CXOs to delivery boys has given me the ability to think from a macro to micro perspective which I believe which go a long way in the professional life ahead.	
Capillary Technologies - Testing Automation , Bangalore		2018-19-sem2

Company	Experience	Year
Capillary Technologies - Testing Automation , Bangalore	The work mostly involved front-end development along with some back-end tracing. Dotnet framework was used majorly for all the development. There were three tasks that were assigned during the internship that included creating config logs on the database for all the changes user does on the page, Creating a new page for Order allocation for all the failed orders (my team being E-Commerce) and integrating GA tracking and hotjar onto their control panel. Tool used (Development tools - H/w, S/w) : Visual Studio, Redis, VirtualBox, SQL workbench, Github, Objectives of the project : The project was divided into sub tasks. The objectives of each being Creating audit logs for all the user interaction, Creating a order Re-allocation page and Integrating Google analytics tracking API and Hotjar onto the Control Panel. Major Learning Outcomes : You'll get the taste of Industry standard tools like getting experience with version control hosting services, major tools and platform used. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is quite ethical. You'll get to taste the benifits of team work. People are helpful. Learning curve is steep. Academic courses relevant to the project : Basically you should know how to code.	2018-19-sem2
Capillary Technologies - Testing Automation , Bangalore	Mentor Mentor comments: Students are interactive and knowledgeable. They are proactive in solving the tasks on time. Brief write-up on PS-II station : All the three stations are software based organizations. The general expectations from stations are students should be from computer science background (Qubole) and if not, they should have done electives or acquired enough skill sets on Python, Java, Database, Spring, Hibernate etc	2019-20-sem2
Capillary Technologies - Testing Automation , Bangalore	As a part of the campaigns team, the work mainly revolves around setting up and handling the work of the campaigns for its customers. I have been given the responsibility to take care of their email validation service, which is a crucial step of the team. The situation as of now, was that their were certain issues regarding the email validation and which in turn started affecting the customers. Hence, there was a need to take certain suitable measures to make this as accurate as possible. The service follows a queue system of a definite batch size. After the analyses of the logs and the database, the problems were found out and the necessary code changes and add-ons were suggested so as to improve the accuracy of the service such as delaying a process for some	2019-20-sem2

Company	Experience	Year
	time so that maximum retry of the service does not create a problem, handling blacklisted domains and so on. A function was to be implemented for just showing the stating the final status of the email without displaying other indicators involved. In addition to the above project, I was given another project to work on in, wherein the objective of the project was to write a script so as to extract the data pertaining to the usage of product in terms of certain metrics. This project was started so as to help the product managers to draw enough insights from the product usage in different areas and take necessary actions to overcome nay difficulties. The data-source in these cases were MySQL and MongoDB. A python script was written which incorporated the required MySQL/Mongo queries and the necessary connnections with the production and testing servers. The generated results were presented in the form of an excel sheet. Some of the KPIs were number of messages, number of campaigns and so on. Tool used (Development tools - H/w, S/w) : Java,Python,MongoDB, MySQL, GitHub Objectives of the project : 1) Improving the accuracy and correctness of email whitelisting service. 2)Automation of product usage span scoring system Major Learning Outcomes : 1) Writing optimised MySQL queries 2) Testing the code on test/production server 3) Debugging and effective code writing 4)Data structures and Queuing mechanisms Details of Papers/patents : Brief Description of working environment, expectations from the company : The company does expect you to take total ownership of your work . There isn't any documentation for every task that is being assigned and hence that is a challenge. They expect you to work hard and be quite pro-active which is quite a good learning experience. Academic courses relevant to the project : Data Structure and Algorithms Object Oriented Programming Operating System	

Company	Experience	Year
Capillary Technologies - Testing Automation , Bangalore	Enhancement of control panel in Anywhere Commerce Plus, e commerce platform built by Capillary. Client side and Server side design of web pages. Tool used (Development tools - H/w, S/w) : VB.NET, ASP.NET, MySQL, Javascript, PHP Objectives of the project : Enhancement of an existing product Major Learning Outcomes : Database, MySQL, client side and server side web page design. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Relaxed environment, flexible work hours but company expects you to finish work on time Academic courses relevant to the project : Object Oriented Programming, DBMS, DSA	2019-20-sem2
Capillary Technologies - Testing Automation , Bangalore	Brief write-up on PS-II station : CEERI, Pilani is a core electronics engineering research institute, that provides opportunities to students to work on live research projects in various domains of electronics engineering. A number of projects in the areas of deep learning, machine learning and IoT are available. Students need to have basic understanding of algorithms, programming languages like Python, data analytics and cloud computing, though the required study material is furnished by the mentors. Opportunities to go for MTech and PhD, JRF are also available.	2019-20-sem2

Company	Experience	Year
Carwale (Automotive Exchange Pvt. Ltd.), Mumbai	My Internship at Carwale helped me majorly in learning how the mobile application technology works. I was part of Mobile Application Team at Carwale, working on iOS Carwale mobile application. This allowed me to learn various concepts in Mobile Application Development.A sufficient time was provided for me to learn various concepts and get ready to work on the live application. Over the time period I have worked on many important features and their integration into the application and was also part of 4 major releases. Also working in a team environment helped me to learn how to function and co-ordinate alongside other people. My project in simple was to implement the latest features provided by product manager, also make modifications and developments in the iOS Application technology according to the new updates. Over the time I have implemented Cocoapods, Filters, Favourites, Car Buying Assistance and Analytic trackers into the application. Working on these modules helped me in acquiring knowledge in UI/UX part of the module and also how the API integration is done in the application. The skill sets that are required to work on iOS Mobile Application Development are Objective-C/Swift, X-Code, Mac-OS X, Mobile App Development, GIT etc. I acquired these skills by starting with Objective-C and starting to develop small applications and Views in X-Code. Later I started to work on live application and also learnt how to work with GIT and co-ordinate on GIT along with others .Overall PS-II experience was good and it allowed me to learn something new and also expanded my knowledge and interest in iOS Technology. My major achievement is now I am able to work on the Carwale iOS live application and can implement new features with ease. Also with some more effort can work on a new application and build it from scratch. This ps-2 experience also helped me in my ability to learn and explore new things in Mobile technology and taught me how to improve my Concepts along with working on the application.	2015-16-sem2

Company	Experience	Year
Carwale (Automotive Exchange Pvt. Ltd.), Mumbai	My experience at Carwale was extremely rewarding. My learnings here have been threefold. First has to do with the code and software itself, the second was about challenge of managing the code and the third about the challenge of dealing with the human aspect of development. First, I learnt how android applications are actually developed in the real world and the challenges that a developer has to face in developing them. This was the most direct application of the computer science that I had learnt in courses like OOP in BITS. Later I started understanding the difference between getting things done and getting things right in software. I realized that what we do in course projects is the former but the real world development is about how well you can do the latter. The difference between the first and the second is that the first just ensures that you get the results, the second, however, also ensures that the code is easy to understand, maintain and scale up. The second thing, I learnt is that writing code is the easy part, but the harder part is explaining it in documentations. Explaining an abstract thought process in words takes both good writing skills and an ability to empathize with a maintainer who will read the documentation when you are long gone.The final thing I learnt was that it is easy to code if you are designing a software but a product is more than just a means to accomplish the goal, unlike a mere piece of software, a product has to be beautiful in the eyes of the designer who gives you blueprints and expects a delivery that agrees with those prints and it has to be lucrative in the eyes of the product manager who gives you the requirements that his sales team has contrived for him from the responses of the users and when these aspects enter coding, it is rarely an easy task to deliver a satisfactory product.My project here was to develop an android app which would act like a lead management system as well as an inventory management system for an automobile dealer. This app is marketed by Carwale to dealers all over India and is available in the play store under the name autobiz. Towards the end of the PS, we even delivered a custom version of the app to a very reputable MNC car manufacturer. I personally had a huge contribution in this customized app. Overall, this Practice School has been a holistic learning experience that will aid me in my future ventures in the software industry.	2015-16-sem2

Company	Experience	Year
CEG Limited , Jaipur	Student	2018-19-sem2
CEG Limited , Jaipur	The multifaceted nature of the project makes it indispensable for the student to possess a broad spectrum of knowledge in various domains of engineering. The student is put to the test on her/his basic comprehension of the pertinent areas involving mathematics, physics, highway geometric design, traffic engineering, pavement analysis, and design, transportation planning as well as sporadic computer programming. I was able to provide assistance to the design engineers in the following areas: • Alignment Design • Profile Design • Cross Section Development • Earthwork calculation and estimation • Signs and Markings • Pavement Design Tool used (Development tools - H/w, S/w) : S/W - MX Road, CIVIL 3D, ADVANCED EXCEL, MS WORD Objectives of the project : Development of a framework for the design a high-speed expressway (150 kmph) as per the Indian conditions Major Learning Outcomes : Through the project, I was able to apply my knowledge to dynamic real-world complications encompassing geometric design which also paved way for me in developing a framework for the design of a high-speed expressway in the Indian conditions. I learned about a plethora of tricks which would be useful in the design process. I also learned about the programming language of the road design software which proves to be effective while designing roads in hilly terrains or sharp bends. Apart from this, I was also able to tap into the almost infinite potential of advanced excel. The overall exposure at CEG Ltd, Jaipur enhanced my basic concepts and learning abilities. Details of Papers/patents : Paper on a framework for the design a high-speed expressway (150 kmph) as per the Indian conditions Brief Description of working environment, expectations from the company : CEG provides the interns with ample opportunities to learn. I have been exposed to almost four diverse projects under the guidance of my mentor which helped me in developing an aptitude for the highway as well as expressway design. The working atmosphere is flexible and provides ample opportunities to flourish. The company also believes in the evolving with time and keeps on concocting new ways to stand out in this turf. This is precisely what an intern would expect from a reputed establishment like CEG Ltd. and almost all my expectations were met. This training provided me with a podium to expand my horizons, enhance	2018-19-sem2

Company	Experience	Year
	my existing skills and be industry ready in a span of just 5.5 months. Academic courses relevant to the project : Probability and statistics, Physics, Highway geometric design, Traffic engineering, Pavement analysis, and design, Transportation planning, CAD and Programming	
CEG Limited , Jaipur	This PS station works on design of roadways and metro. During PS-II, i was able to design skew box culvert and bow string bridge. Tool used (Development tools - H/w, S/w) : STAAD pro, Midas, MS Excel, AutoCAD Objectives of the project : Major Learning Outcomes : Design of bow string bridge, design of skew box culvert, design of pile foundation, design of retsining wall Details of Papers/patents : Brief Description of working environment, expectations from the company : CEG has healthy environment. Employees are friendly and extremely helpful Academic courses relevant to the project : Bridge Engineering, Advanced Steel Structures, Earthquake Engineering, Advanced Structural analysis	2018-19-sem2
Central Leather Research Institute (CLRI) , Chennai		2018-19-sem2
Central Leather Research Institute (CLRI) , Chennai	Designed, fabricated and tested a direct - force ventilation solar dryer for Municipal Solid Wastes. Characerised several organic wastes based on their total & volatile solids. Assisted in finding the biogas potential of organic municipal solid wastes mixed in different ratios. Tool used (Development tools - H/w, S/w) : AutoCAD, Ansys Objectives of the project : To design, fabricate and test a solar dryer for organic municipal wastes; To arrive at optimum mixing ratio of wastes for drying Major Learning Outcomes : Solar dryer design, biogas potential & inhibition calculation (chemical analysis) Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Renewable Energy, Analysis of Structures, Environmental Engineering	2018-19-sem2
Central Leather Research Institute (CLRI) , Chennai		2019-20-sem2

Company	Experience	Year
Central Leather Research Institute (CLRI) , Chennai	Worked on the film forming ability of Carrageenan and gelatin complexes. Tool used (Development tools - H/w, S/w) : UV spectroscopy, Texture profile analyser, extraction of collagen protein Objectives of the project : Film forming ability. Major Learning Outcomes : Piqued interest in learning more about protein extraction, and proteiaceous complexes. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Biochemical Engineering	2019-20-sem2
Centre for Artificial Intelligence & Robotics, Bangalore	Comments: I express true gratitude for the contributions made by the students and an understanding that these contributions were critical and exclusive to each individual. Industry mentors had wonderful capacity and the opportunities they gave to our students, helped to build strength and character. I asked students to be proactive in thinking before performance issues develop, I would like to put on record that because of hard work and inter personal skills and efforts that students have put in to make the project to a great success. Appreciate the great organizations, where general willingness to learn did not go unnoticed. I want to take a moment to share an incident, where the student were asked to develop the features that are critical to the customers. They didn't disappointed; they understood highly complex innovations in very short span of time and delivered good quality code. Great Job, it means you've made a difference. Student	2016-17-sem2

Company	Experience	Year
Centre for Artificial Intelligence & Robotics, Bangalore	Our project was based on the trajectory tracking of an autonomous 4 wheeled vehicle indigenous developed by DRDO. Using fundamental vehicle dynamics, we derived governing equations that determined basic vehicle behaviour, using modified assumptions and parameters appropriate to the specifications of the vehicle developed by DRDO. Furthermore, we developed a closed-loop control system on MATLAB & Simulink to simulate the motion of the vehicle on predefined manoeuvres. Different models were developed and compared (Single Track Model and Double Track Model, Neutral Steer Model and Over Steer Model) with existing experimental data of the same vehicle. As the vehicle developed by DRDO shows a non-uniform distribution of weight between the left and right sides and, thus, unlike regular vehicles that traverse similar turns in both left and right directions, the DRDO vehicle takes sharper turns on the side on which more weight is concentrated. This behaviour is captured in the model and system we have developed. Tools used (Development tools - H/w, S/w): MATLAB & Simulink, Adams Car. Objectives of the project: To develop a control system that accurately predicts that path followed by an autonomous vehicle indigenous developed by DRDO for a given manoeuvre. Details of papers/patents: To be submitted to an IEEE conference (CCUBE 2017, Bangalore). Outcomes of the project: A trajectory tracking model based on the double track method was developed to simulate vehicles with non-uniform weight distributions as shown by the vehicle developed by DRDO. Major Learning Outcomes: Understanding the fundamentals of vehicle dynamics and the governing equations that determine the motion of a vehicle. Understanding of basic closed and open loop control systems and their implementation on MATLAB & Simulink. Brief Description of working environment, expectations from the company: There is little practical work involved in the project, with most of the work involving simulations on MATLAB & Simulink. Each intern is provided with an individual computer in the air-conditioned CAIR Trainee room. Mobiles are not allowed inside the premises and there is no internet access except at the internet room. There are no weekly targets or goals expected by the organisation. The pace of the project is determined by regular interactions with the mentor at CAIR. In case you are unfamiliar with a subject or software, the mentors provide both resources and time to study the same.	2016-17-sem2

Company	Experience	Year
Centre for Artificial Intelligence & Robotics, Bangalore	Worked on simulation of the walking gait of an entirely hydraulically actuated quadruped robot. Tools used (Development tools - H/w, S/w): Adams, matlab, solidworks, maple, Adams matlab cosimulation. Objectives of the project: Development of walking gait of a hydraulic quadruped. Outcomes of the project: Complete. Major Learning Outcomes: Robotics, simulation, software. Brief Description of working environment, expectations from the company: Excellent timings, free to set your own pace, excellent place for learning.	2016-17-sem2
Centre for Artificial Intelligence & Robotics, Bangalore	Worked on multibody-dynamics, simulations, and control systems. Tools used (Development tools - H/w, S/w): ADAMS, MATLAB, SolidWorks. Objectives of the project: Develop a simulation and control system for gait of a hydraulic powered quadruped robot. Outcomes of the project: A simulation and control system for gait of a hydraulic powered quadruped robot. Major Learning Outcomes: Robotics, Control Systems, Multi-body dynamics. Brief Description of working environment, expectations from the company: Restricted working environment due to many security constraints. Need to be highly self motivated as push from mentors is minimal.	2016-17-sem2

Company	Experience	Year
Centre For Development Of Imaging Technology, Trivandrum	With the rise of smartphones and their rapid replacement of traditional computers, today's websites need to be revamped to be adaptable to all devices and have cross-platform compatibility. Also, with most smartphones now possessing material design, most websites need a newer, sleeker look. In the web development projects assigned to us at C-DIT, the main task at hand was to redesign websites belonging to various departments of Govt of Kerala, viz. Department of Environment and Climate Change, State Institute of Rural Department, Kerala Livestock Development Board, Srinavasa Ramanujan Institute for Basic Sciences. Me and my fellow PS-2 students developed these websites to have an intuitive and easy to navigate interface and also provide cross-platform accessibility, thereby aiming to increase the public awareness and public participation in aforementioned initiatives undertaken by Govt. Departments in the respective domains. A popular and easy to learn web development and content management tool called Joomla Content Management System was used by me for my web development work. Joomla creates websites which are responsive to a device's screen size, as there are a plethora of templates to do so. Utilizing the basic features of Joomla, with the various templates and modules created and added externally, we were able to create cross platform compatible websites, sleek and secure to replace the increasingly obscure websites that are currently in place at these departments. I am grateful to my mentor at C-DIT for providing my the required assistance and guidance to accomplish the aforementioned projects, thereby gaining lot of technical skills in the process.	2015-16-sem2

Company	Experience	Year
Centre For Development Of Imaging Technology, Trivandrum	In the beginning, I started with HTML, CSS and JavaScript for learning the basics of web technology. We were given projects under the web services department for the redesigning of Government Websites and bringing them to current design standards. I spent 1 month learning the basics of Web technology and Website designing. With the coming of mobile devices and screens of different aspect ratios, the old government websites were designed for old times and needed to be revamped to become adaptable to all devices. Also, following the current design standards of Flat design and Material designs that now most smartphones possess, I designed it to the latest standards. Along with my colleagues, I familiarized myself with Joomla, a content management system which is very helpful in creating websites that were more on the lines of latest design and being cross platform out of the box. During the rest of the 4.5 months, I started finding ways to optimize JS and CSS. After looking through loads of modules, plugins, frameworks that fit the template selected, I with along my PS 2 colleagues designed the ENVT (Kerala Government Environment Website of the Department of Environment and Climate change) website to be responsive. I also made various plugins of which one was for the google maps, locating DOECC on the Map. Later in May, I started with my second individual project website of SRIBS (Srinivasa Ramanujan Institute for Basic Sciences). This was when I started creating my template using the stock template of Purity 3 template by JoomlaArt. I created Custom HTML modules for the News and announcements section of the website where the site admin can easily add the latest feeds. On this website, I added plugins for Social Sharing/liking/Comments which would enable the visitors of the website to share, like and comment on the events happening at SRIBS on social platforms. I also branded the SRIBS website with a new logo that matched the color scheme of my template. The new logo I made is a vector image that can be scaled to a very any resolution if need be. This will be a very important resource for the future developers. My work was well documented and sufficient information was provided along with the login credentials for the database and the website. The PS projects here was an eye opener for me, bringing me to the world of web technology that we all see every day but yet do not know the working behind it.	2015-16-sem2

Company	Experience	Year
Centre For Development Of Imaging Technology, Trivandrum	My Practice School 2 station, Thiruvananthapuram. During my 5.5 month work period, I, along with my PS 2 colleagues, worked with the web services department of the institute, and was responsible for redesigning the websites of 2 government department, on behalf of C-DIT. The first one was the website of the Department of Environment and Climate Change, Govt of Kerala; while the second was the website of the State Institute of Rural Development, Govt of Kerala. I was tasked with creating websites that were more futuristic, compliant with current design paradigms, and compatible with the wide array of devices that are coming up; while also giving these websites an elegant look. This task was accomplished by me using web development and content management tools known as Joomla Content Management System. Joomla was helpful in doing so as it creates websites that are responsive to a device's screen size, and does it very easily. Combining the basic features of Joomla, with the various templates and modules created and added externally, I was able to create crops platform compatible websites, sleek and secure to replace the slightly out-of-date websites that are currently in place at these departments.	2015-16-sem2
Century Rayon , Mumbai		2018-19-sem2

Company	Experience	Year
Century Rayon , Mumbai	Our project was aimed at recovery of sulfur from slag sulfur & recovery of zinc from zinc sludge. We developed various processes for recovering these valuable products. Process Flow Diagrams, Flow Sheets and Cost Benefit analysis of our PFDs were also undertaken. We found that process can be made profitable under certain circumstances. Tool used (Development tools - H/w, S/w) : Objectives of the project : Recovery of Sulfur & Zinc from wastes Major Learning Outcomes : Learning various methods of recovery, understanding the working of a plant, first hand experience of plant based cost benefit analysis. Details of Papers/patents : Brief Description of working environment, expectations from the company : People are very helpful, kind and also willing to learn new things from us well. They respect students from BITS university for heir knowledge. Low level of internal politics. The company has expectations from the students to be punctual and be devoted to the work. The training HR manager also asked as to why only 2 students are sent for PS-2 and was willing to take few more people as there are enormous opportunities to explore in their projects. Academic courses relevant to the project : Engineering Chemistry, Heat Transfer, Process Design, Equipment Design.	2018-19-sem2

Company	Experience	Year
Century Rayon , Mumbai	For sulfur recovery, one method using lime and hydrochloric acid was completed. Three trials were taken for the same. For zinc recovery, three methods were tried using sulfuric acid, sulfur dioxide gas and hydrochloric acid as starting materials. For each of the three methods, complete analysis at each stage of the experiments was done. At the same time, plant-scale design for both, sulfur recovery and the best method for zinc recovery was done. Tool used (Development tools - H/w, S/w) : Mostly Hardware tools such as apparatus from chemical laboratory were used to carry out the experiments. Objectives of the project : The main objective of the project was to recover valuable elements and compounds from the waste generated in the plant; namely sulfur from slag sulfur waste and zinc from ETP waste. Major Learning Outcomes : Due to this project, I got to know about various new reactions, especially those involving sulfur and zinc and also about the manufacturing process of rayon and of the chemicals used in making it. Apart from that, I got to learn various testing methods and plant-scale design as well. Details of Papers/patents : [1]"Manufacture Of Sulphur". United States Patent Office, Patent no. 1,492,489 dated Apr. 29, 1924. [2]"Zinc Precipitation and Recovery from Viscose Rayon Wastewater". U.S. Environmental Protection Agency, Report 12090 ESG, 1974. [3]"Manufacture of Zinc O Brief Description of working environment, expectations from the company : The working environment was very good. All the staff was very knowledgeable and helpful. Academic courses relevant to the project : Engineering Chemistry Heat Transfer Kinetics and Reactor Design	2018-19-sem2
Century Rayon , Mumbai	Comments: Expectations from industry : The students are working in various VLSI and communication projects like peak detection and power estimation on I/Q data, receiver impairments estimation in MIMO systems, Fuel Gauge Algorithm Development in Li-Ion Batteries, Analysis on 2G logs, convert RTL design into netlist, design verification etc. Students are using Labview, verilog, VHDl and scripting languages like tcl, python , PLA tool, in their projects. The students can refresh their basics and learn basics of scirpting languages before they come for PS 2	2018-19-sem2
Century Rayon , Mumbai		2019-20-sem2

Company	Experience	Year
Century Rayon , Mumbai	The project involved optimization zinc extraction from waste sludge which has currently been dumped out in form of waste.The process is important not only for cost effective nature of mineral(zinc) but also to meet government norms of zinc concentration in waste effluent (5ppm).The various precipitation methods worked on include using Na2S,using bleach and HCl these methods were tested on lab scale and later most optimized method (use of Bleach and 11% (weight/volume) HCl) for used for large scale analysis of cost and process flow diagram was formed for the same. Tool used (Development tools - H/w, S/w) : Laboratory Equipments like Flask , Weighing Balance,Filterate Paper Large Drum to store sample,Boiler etc Objectives of the project : Zinc Recovery From Waste Sludge Major Learning Outcomes : Learnt Various methods about zinc recovery of which recovery through bleach and HCl (11% w/v) with sludge was most optimum method. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Process Design and Principles,Engineering Chemistry	2019-20-sem2

Company	Experience	Year
Century Rayon , Mumbai	Zinc is a very important component in the production of Viscose Rayon Yarn. It is primarily responsible for the strength and tenacity of the yarn by retarding the rate of regeneration of cellulose while spinning. Zinc is very poisonous but it is significant in the process of Rayon Production, hence it cannot be eliminated from the process. Thus, it also makes its way into the wastes of the rayon industry. Due to the poisonous of Zinc even in small quantities, Government norms prevent its release into the environment at concentrations higher than 5ppm and is removed at the ETP in the form of sludge. Zinc is a considerably costly metal. By recovering the Zinc before it reaches the ETP not only we can save a lot of money on zinc itself, but we can also save it on the waste disposal as well as the load on ETP and the sludge generated will also be reduced. When looked at various methods of Zinc recovery, most of them (Electrolysis, Liquid-Liquid extraction, etc.) come out to be costly. Keeping that in mind, we worked towards using readily available materials in the company for recovery using simple methods like double ion exchange using resins. Tool used (Development tools - H/w, S/w) : Resins and other general Chemicals and lab equipments Objectives of the project : Zinc Recovery Major Learning Outcomes : 1. Understanding how to find conc. of Zn in a given sample 2. Understanding the working of a resin Details of Papers/patents : Brief Description of working environment, expectations from the company : Very friendly and helpful Academic courses relevant to the project : Separation Processes 1 and 2	2019-20-sem2

Company	Experience	Year
Century Rayon , Mumbai	Zinc is a significant component in the production of Viscose Rayon Yarn and cannot be eliminated from the process.Thus, it makes its way into the wastes of the industry. However, due to its poisonous nature, Government norms prevent its release into the environment at concentrations higher than 5 ppm. By recovering this Zinc before it reaches the ETP, not only we can save a lot of money on zinc itself, but we can also save it on the waste disposal as well as the load on ETP. Keeping that in mind, we worked towards using readily available materials in the company for recovery using simple methods like double ion exchange using resins. Tool used (Development tools - H/w, S/w) : Resins, Laboratory Equipment and other chemicals required Objectives of the project : The main objectives of the project is developing an industrially feasible process for the recovery of zinc from the waste effluent and also reducing the concentration of Zinc to less than 5ppm as suggested by government norms. Major Learning Outcomes : 1. Understanding how to find the concentration of Zinc in a given sample 2. Understanding the capacity of resins to absorb Zinc Details of Papers/patents : Brief Description of working environment, expectations from the company : Century Rayon creates a wonderful environment for learning both soft and hard skills. Their exemplary guidance, constant encouragement and careful monitoring through the internship are the main reasons which helped us in finishing the project. The main aim of Century Rayon is to develop a economical and industrially feasible process to recover the zinc which is being wasted thereby mitigating the losses of the company. Academic courses relevant to the project : CEL-1, Chemical Processes and Calculations	2019-20-sem2
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	Bangalore Comments: Students at Cisco Systems worked on a variety of projects in the area of routers, switches, in-house tool development, process improvement and program management (MBA students). Knowledge in C/C++/Java/Python, domain knowledge in Networking and web development is useful for companies like Cisco Systems. Student	2016-17-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	The project primarily focused on automating the unit test cases of router software components by using cisco's proprietary testing framework pyats which is python based and automation was done by using fireX an automation framework based on celery. Tools used (Development tools - H/w, S/w): (H/w) NCS-4K router,(S/W) pyats, fireX, VM(Redhat Environment). Objectives of the project: Unit Test individual components of router both hardware as well as software Outcomes of the project: Measure how robust and reliable router can be in terms of number of test cases passed and failed and help developers to debug software components which got faulty during testing. Major Learning Outcomes: Learnt deeply about Cisco's Router Architecture and also about automation of unit tests in production environment. Brief Description of working environment, expectations from the company: Cisco environment is very cool in terms of people who works here and the work culture is fantastic. When I joined cisco I had no idea about cisco routers internal functioning but employees at cisco helped me lot in understanding important concepts used in building router and also good work life balance but not true for every departments. Overall quite satisfied with cisco's work culture and professionalism of people who work at cisco. Company expects you to provide solutions that helps in solving problems not only at small scale but also at large scale and also expects originality of ideas.	2016-17-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	The following project is about simulating test cases on SANet of Cisco Systems, Inc. We have to simulate the test cases in the Internetworking Operating System (IOS) of Cisco Systems, Inc. We first run the SANet on the Operating System which is in the Virtual Machine (VM) provided by Cisco Systems, Inc. Then we have to build the test cases. Then we have to run the SANet on the VM and apply test cases that we have built earlier. We then run these test cases on the actual switches and routers of Cisco Systems, Inc. Tools used (Development tools - H/w, S/w): VNC viewer, putty. Objectives of the project: To check whether a program or some functions are working correctly, we test them. Testing can be done manually and even better, they can be automated. In our project, we try to automate the test by automating the test cases. To do so, we write scripts in order to automate them. The tests are then run on functions which represent how an actual switch works. After running the tests we come to know whether the switches or routers work or not. We run the tests on an operating system called Internetworking Operating System (IOS). Outcomes of the project: We come to know how routers and switches actually work. Major Learning Outcomes: Learnt to add a test case. Booting images on some CISCO products. Understanding Linux commands. Brief Description of working environment, expectations from the company: Working environment is good and they expect the work to be completed before the deadline.	2016-17-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	1. Developed a web based tool to display and control the routers in the lab. 2. Developed a module which is used to display the router information and the ability to turn on, off and reboot the device using the tool. 3. Developed a web based tool to display the different customer configuration and features. Tools used (Development tools - H/w, S/w): Python, PHP, HTML, Ajax, Javascript, Basics of networking Objectives of the project: Provide user the router information and the ability to control the routers in the lab. Provide user number of free router console and its details. Provide user to turn on or off or reboot the device using the tool instead of doing it manually. Provide user with different customer information and features. Outcomes of the project: Completed within the time period, got a lot of updates and issues from customers end and fixed them all. Major Learning Outcomes: The tools used Python for back-end process and PHP, HTML, Ajax, Javascript for front-end process. Brief Description of working environment, expectations from the company: The working environment is good. Knowledge with respect to developing tools, scripting language, basics of networking is expected from the company. All the team members are very helpful and are always ready to solve any kind of issues faced. Mentor and Manager are very supportive and always try to give good work. Expectations from the company is to understand and know different scripting languages and web based languages. Company expects a quick-learner, smart thinker and a person with a go-getter attitude.	2016-17-sem2
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	Migrating a monolithic system to microservices architecture. Tools used (Development tools - H/w, S/w): RabbitMQ, Eclipse, Java Proxy, servlets. Objectives of the project: Making a system distributive. Outcomes of the project: Distributive system. Major Learning Outcomes: RabbitMQ, Microservice Architecture. Brief Description of working environment, expectations from the company: Friendly working environment.	2016-17-sem2
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	I was part of core software group, (ENG unit at Cisco). We (team of four interns) have been assigned to integrate Cisco proprietary test framework to test possible use cases for CiscoTrustSec module. Basically CiscoTrustSec (CTS) is the product from Cisco which facilitate Role, Device and Location based Authentication and Authorization for Enterprise networks. Initial one month we had KT sessions to understand product features and to understand significance	2016-17-sem2

Company	Experience	Year
	of each Hardware and Software module involved. Test framework was developed in LUA language. We explored features of test framework and sample examples from Cisco Internal Wiki. We had meetings with Tech Leads to track progress. Tech leads were very supportive here. Whenever we stuck in coding or design, one stop solution is contact tech lead and express your concern. One thing i like the most at Cisco is, you are the owner of work assigned to you. Which gives immense exposure to all phases of product life cycle starting from designing solution to write optimized for code for it. We developed test cases for MAC and DOT1X based authentication for wired networks which will help Developers to Unit test their modules. Tools used (Development tools - H/w, S/w): C and LUA language, Wireshark for packet capture, Cat9k Switch. Objectives of the project: I was part of Polaris feature development team, my team was working on one module which runs as process on Cisco switch OS. Basic functionality of this module is to provide Authentication, Authorization and Accounting services to end devices which connects to switch via Ethernet port into Enterprise networks. This feature is publicly known as Cisco Trusted Security (TrustSec). To improve the code quality and code coverage, Cisco decides to use proprietary test framework for Trustsec. Scope of the project includes use of proprietary test framework to validate and verify the Trustsec functionality. Test framework can be used to Unit test modules on Actual device or on virtual machine. Longterm objective of this project was to create test suite pool which includes all possible use cases, sanity and regressions tests for each subsystem so that code coverage can be increased to 80-90% and developers can Unit test their modules irrespective of dependencies on other sub systems. Outcomes of the project: Intergartion of cisco proprietary test framework with CiscoTrustSec modules to improve code quality and coverage. Create test pool which includes usecases for all possible scenarios, sanity tests and regression test pack so that developers can reduce development time by working effectively on feature development instead of investing time on creation and execution of Unit test plan for their modules. Major Learning Outcomes: Learning different types of authentication methods for Enterprise network. How Authentication, Authorization and Accounting achieved for End devices connect to Enterprise Network. How to configure Switch, its IP for particular network, policy creation and enforcement. FFI binding, LUA framework, Integration test	

Company	Experience	Year
	suite and interaction between them. Brief Description of working environment, expectations from the company: We have been assigned individual mentor who helped us to understand project features, how to avail Linux machines and lab access. Cisco doesn't follow any timing structure. You are expected to attend meetings and get your tasks completed before deadline. Work environment is very supportive and employees are truly humble, you can ask your concerns to your team member at anytime. Everyone has laptop here, so no need to work from desk only, you can sit in breakout area and complete your work. You as an individual has to design and implement solution for whatever feature assigned to you which is really good thing to learn and construct feasible approach for any bug/feature.	
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	I have worked on two major projects that involves front end and back end. Solved real time bugs and hands on Cisco's tools. Tools used (Development tools - H/w, S/w): Eclipse, Cisco Work Space, development languages, Cisco Routers. Objectives of the project: Development of two Tools: 1. Helpful to customer who uses ASR and NCS Routers. 2. Efficient submission of codes to test beds. Outcomes of the project: Successful delivery of codes. Major Learning Outcomes: Learnt web development, scripting, configuration on routers, Cisco's code base and tools that are useful for the employees. Brief Description of working environment, expectations from the company: Work life balance is good. They expect to complete work on time. No restriction on in time and out time of office.	2016-17-sem2
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	I had two projects over her. One was related to testing (developing test cases for already existing python files) and the other one to development (developing python handler for cli). Tools used (Development tools - H/w, S/w): Python, C, C++, Pyats, LINUX. Objectives of the project: Making cli function callable from python, helping create test cases for already existing py files. Outcomes of the project: The project are successful and will be integrated to the code base of cisco. Major Learning Outcomes: Testing, Software development, Linux, Big code base handling. Brief Description of working environment, expectations from the company: The work environment is very good in Cisco. The people here are friendly. I would recommend it to all electronics engineers who want to start their career in IT. A lot of learning time is given to newcomers.	2016-17-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	I had done 2 projects. 1) Made some enhancements in Log Parser Tool (all work in Python) 2) In this I had to make trouble shooting Bot in Cisco Spark (In Spark messaging, calling, video all integrated in one platform, designed for enterprises) for different applications. Tools used (Development tools - H/w, S/w): Python, Java, API.AI (for NLP), Netica (for Bayesian Networks), Cisco Spark API, New Relic, DNSjava, Elastic Search, Kibana, grafana. Objectives of the project: Automation. Outcomes of the project: Made trouble shooting bot for different applications and made log parser to support ATA log files and other enhancements. Major Learning Outcomes: Learnt Machine Learning and different technologies Brief Description of working environment, expectations from the company: Work culture of Cisco is very good. People are very helpful.	2016-17-sem2
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	It was a full project. To implement PTP (Precision Time Protocol) for etherchannel. Tools used (Development tools - H/w, S/w): Language: C. Objectives of the project: Time synchronization between two device. Outcomes of the project: Project completed with in the stipulated time. Major Learning Outcomes: Networking, Protocols Brief Description of working environment, expectations from the company: Work culture here is best in the industry. Chances of PPO depends on the vacancy available in the BU and also on the manager recommendations.	2016-17-sem2
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	Worked on hybrid mobile application development mainly concentrating on the ui part of it. Tools used (Development tools - H/w, S/w): Android Studio, Ionic Creator, Unity 3d. Objectives of the project: To develop a webview around a 3D model as a VR application. Outcomes of the project: Finished almost 70% part of the project. Major Learning Outcomes: Process of mobile application development. Brief Description of working environment, expectations from the company: It was a nice time working in Cisco for almost 6 months, got to know how a big company functions and various processes involved during a major application development.	2016-17-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	1. Configuring system to use proprietary test automation tool. 2. Writing test scripts to automate test on files given. 3. Executing the test scripts to facilitate automation of tests, on Cisco switching and routing devices Tools used (Development tools - H/w, S/w): C, Linux, Cisco proprietary test automation tool. Objectives of the project: To automate the tests performed on given code via proprietary test automation tool. Outcomes of the project: Successful configuration and automatic execution of the test scripts on the Cisco routing and switching products. Major Learning Outcomes: Learning to configure the system, more usage of C and linux, writing and executing test suites on Host machine as well as on Cisco routing and switching products. Brief Description of working environment, expectations from the company: Work environment casual, no micromanagement. No unwanted interference from teammates, mentor or manager. Helpful staff, facilities for recreation in office. Expectations: More development projects in which we have to build from scratch.	2016-17-sem2
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	My main work is to enable bluetooth on cisco switch and make a bluetooth managament interface using it. So for that I have to add all packages, drivers modules related to bluetooth and make it work on cisco IOS. Tools used (Development tools - H/w, S/w): Linux, bluetooth, Cisco switch. Objectives of the project: Make Bluetooth management interface using Bluetooth. Outcomes of the project: Switches can be managed remotely. Major Learning Outcomes: Linux, Bluetooth. Brief Description of working environment, expectations from the company: Working culture is very good, work life balance is very good. We can able to work on latest technologies. Expectations: More development projects in which we have to build from scratch.	2016-17-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	Creating the executive dashboard for leadership team and helping the team build the next generation reporting tools and processes Tools used (Development tools - H/w, S/w): Tableau, VBA, Excel. Objectives of the project: Create a Dashboard for the executive team? Creating the next generation reporting tools. Outcomes of the project: New Executive dashboard for Leadership team Next Generation Reporting tools. Major Learning Outcomes: New Software's and Programming languages. Reporting Process in Organization. Exposure to Analytics and Big Data. Brief Description of working environment, expectations from the company: The work culture is good and open you will get to learn a lot of stuff. You will get to work on a lot of interesting and exciting stuff. The Intern program Cisco has gives you a lot of cross functional and global experience.	2016-17-sem2
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	Worked on the module which was responsible for communicating the data related to sender's reputation and its incoming mails and their status, to a central intelligence and repository that maintains a global knowledge about the IP of senders and their reputation score. The problem was that whenever email security appliance (ESA) participated in communicating such a data to the SenderBase, it showed some performance drop. My work involved looking into the code base and making appropriate changes to mitigate the performance drop. Also, there was another project where I had to write code to communicate with the newly inducted Classification Service on the Thread Grid. Thread grid is responsible for checking and reporting malicious files to the ESA. The new classification service will be intelligent enough to analysis the file and get its verdict without even executing it on various environment. Currently, the ESA is communicating with ThreatGrid directly. The need is to let ESA communicate with the CS. Tools used (Development tools - H/w, S/w): H/W - Email Security Appliance. S/W - vi, cscope, VMWare VSphere Client. Objectives of the project: 1.To improve the performance of email security appliance when senderbase network participation is enabled. 2. To establish a connection between newly inducted classification service on threadgrid service with email security appliance. Outcomes of the project: 1. There are various stages in the email pipeline where data is being collected for sharing it with SenderBase. Those data collecting methods take significant time in collecting those data which can't be removed from the module, hence there will always be	2016-17-sem2

Company	Experience	Year
	performance drop when SBNP in enabled. 2. Done with understanding of the module where the logic has to be implemented to make the appropriate communication happen. But as the other team is still working to expose various URIs to connect with, the project has been delayed. Major Learning Outcomes: 1. Better understanding of email architecture. 2. Working of email security appliance. 3. How Cisco is making the emails secure for its customers. 4. Communication with various teams. 5. How processes in production are automated. Brief Description of working environment, expectations from the company: Working environment in Cisco is vary cool. You aren't required to work in a cubicle. There are various awesome places on each and every floor of nearly every building where you can relax as well as work. There are nap rooms where you can take a nap if you are feeling tired. The people here are very much experienced and know their stuffs right. We as an intern where involved in various team outings as well. We even had an outing especially planned for interns. If you are joining Cisco as your PS, then expect to have a loads of fun as well as work on cool products that are securing billions of lives.	

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	The aim of the project was to integrate Enhanced Threat Telemetry Analysis (ETTA) with Cisco Web security appliance (WSA). ETTA is opensource project, It is added to WSA as a reporting module. It can detect malware in given sequence of packets. Task started from building ETTA on freebsd as it was meant for linux and mac distribution then integrate it with various WSA logging module and log subscription. A python wrapper code is written for health monitoring, configuring and standard output logs of ETTA. Command line interface is added for configuring ETTA process. Also, wrote few automation scripts for testing purpose. Elastic search, kibana and logstaths is used at the end for visualization purpose. Created a engineering build for the integration for release and licensing purpose. Objectives of the project: There are various web security tools are available for malware analysis and all these tools decrypt traffic while analyzing it and this behavior may not preserve the integrity of a connection. The goal of ETTA is to provide better threat detection and forensics for customers, even in the presence of encrypted traffic streams and to overcome the overhead of decryption, and maintain end-to-end encryption. ETTA – Joy package predicts possibility of packet being malware by using machine learning techniques. It also determines whether a traffic is encrypted or not using byte entropy calculation. Hence the integration of ETTA with WSA will improve overall performance and also it can be included in reporting module for admin viewing purpose. Outcomes of the project: ETTA feature is added to WSA. Engineering build for WSA-ETTA integration is created with all the dependencies. Major Learning Outcomes: Working of web security appliance, modularizing of code for loose coupling, Machine learning involved (logistic regression), Automated scripts, Version controlling (perforce). Brief Description of working environment, expectations from the company: Work culture in Cisco content security group is very friendly, Here all the people are knowledgeable, learning curve is very good. Work life balance is there and ideas are always respected and innovation is promoted. Frequent team outings are there for socializing.	2016-17-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	Packet Drop Auto Triaging: Packet drop auto triaging is simply identifying the reason behind packet drop. There are already available output chains from router which has enough information to deduce the reason behind packet drop in most cases. This can be done by verifying the output chain with predefined conditions. My task is to automating this and at least cover basic cases would which will save a lot of time against when done manually. This task includes parsing the output to parameters and then verify it by comparing these parameters according to predefined conditions. Tools used (Development tools - H/w, S/w): Python (Pexpect & Parse) and Router through CLI. Objectives of the project: Packet Drop Auto Triaging: Packet drop auto triaging is simply identifying the reason behind packet drop. Outcomes of the project: Manually doing this task was tedious and time consuming thus automating it saved a lot of time and manual effort. Major Learning Outcomes: 1. Architecture of Routing infrastructure 2. Automating CLI tasks and its monitoring Brief Description of working environment, expectations from the company: Working environment at Cisco is little formal which is required at such large company and mostly informal. You are free manage you time as you want, unless you are doing you work properly and reporting to meetings and discussions when required. Managers and mentors are very friendly and will help you out whenever you need. There was a bit of confusions in some departments initially on what work should be given to interns but with time it gets sorted. There is good work life balance and more than enough facilities to spend your leisure time.	2016-17-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	Created a framework, based on REST APIs, that automates the functionality of the Firepower Management Centre. Objectives of the project: The project aimed to automate the functions of the FirePower Management centre, which included creation of Access Policies, creation of Access Rules, then the deployment of the Firepower Threat Defence centre, its configurations, the traffic flow through the device and the validation of the same. Outcomes of the project: The framework successfully performs all the functionality at a much less time than that taken by GUI. This also reduces the probability of error, giving if any issue at a much earlier stage. Major Learning Outcomes: Learnt about the Firewalls, Firepower Threat Defence device, Firepower Management Centre and other network security appliances. Brief Description of working environment, expectations from the company: working environment was good.	2016-17-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	I joined here as a Software Engineer - Grad. Intern. With Content Security team which is a part of Security Business Group (SBG). Worked closely with the existing automation team - which was working on one of the appliances called ESA owned by Cisco. The job was to automate the process for the validation of engine (one of the component - many 3rd party vendors) so a sound knowledge of automation, scripting languages and picking right set of tools & packages for it. Also with that, since it was a group project helped in the development of the Web Dashboard to display the result of automation process. Tools used (Development tools - H/w, S/w): Python, FreeBSD based Virtual ESA (Email Security Appliance), HTML5, CSS, JS, DjangoDB, S3, AWS Cloud. Objectives of the project: To automate the engine validation project which is currently been done manually to save the human intervention and time. And finally making it one click accessible for the higher management/ authority to see the published results and raise tickets to publish it for general audience/clients. Outcomes of the project: A Deliverable product whose scope can further be increased to more such products as well (more vendors's engines or components - like signature/rules) and hence can save the effort required for validating them manually. Major Learning Outcomes: Automation, Software Dev. LifeCycle (SDLC), OOPs, WebDevelopment, Content & Web Security. Brief Description of working environment, expectations from the company: Work environment is superb here, mentors are really helpful and tech. lead and manager can be approached directly. Great opportunity to actually learn and progress with the comfortable pace. Regular sync ups with mentor and tech. lead. Makes you feel you are part of an emerging and real time project. The best part is Cisco Learning & Development - where you can enroll in to courses and training programs just like any other full time employee. This can be very helpful if you want to learn while working. All I can say is: Wonderful corporate exposure.	2016-17-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	I have been involved with the Business Analytics and Business Intelligence team. My work consisted of automating their tools and developing a dash board on tableau based on various metrics for their business purposes. Tools used (Development tools - H/w, S/w): Tableau, R. Objectives of the project: Better utilization of human power by automating weekly reports. Outcomes of the project: We have developed applications in R for the team's reports. Major Learning Outcomes: I have got good hands on experience in R. Brief Description of working environment, expectations from the company: The working environment of the company is very friendly and also very helpful.	2016-17-sem2
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	Was involved in UT Automation of dot1x protocol for Macsec which involved writing the UT for the dot1x component of Macsec and test it on various platforms. The second project involved adding a new cli option to support gRPC so that third party applications can use the management plane protection (mpp) infra for protection. For this,we added a new cli option and made sure that it interacts with the necessary backend modules for proper functioning,tested on sunstone,wrote UT automation scripts and also XML testing. Tools used (Development tools - H/w, S/w): Rosco box, Sunstone and Panini simulations, Python, XR programming. Objectives of the project: The objective of the gRPC project is to add additional security while allowing third party applications to be hosted. For this the existing CLI had to be changed. Outcomes of the project: The UT automation for dot1x had been successfully written and committed. The code for gRPC is out for peer review and will be committed soon. Major Learning Outcomes: Having been in security team, a very detailed view of the various components of routers and their interaction on a very lower level is given. Learning the details of XR OS and programming in XR has been fun and it further helped in understanding the working of various components better. Also being a part of the PI (platform independent) team, we got to work on different platforms to make us feel more comfortable writing python scripts which are generic in nature and not platform specific. Brief Description of working environment, expectations from the company: The team members were quite helpful when it came to clearing doubts. The work environment is professional and friendly at the same time.	2016-17-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	Work on IoT based protocols like CoAP and CBOR. Learnt how switches and Iot works. Tools used (Development tools - H/w, S/w): Switch, C, VMware. Objectives of the project: Create IoT Client to communicate with the switch. Outcomes of the project: Send some Packets with MUD URI and Worked on CoAP Observe and CoAP Group Communication. Major Learning Outcomes: How CoAP and LLDP work and how to send different network packets. Brief Description of working environment, expectations from the company: Friendly work environment and everyone is ready to help if you are stuck somewhere.	2016-17-sem2
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	In initial stage of internship, task was given to understand about structure of eWLC (WLAN controller) and how FSM (Finite state machine) of different module of eWLC is working. Then, one particular library was decoupled to remove dependency on that library. Test cases were written to check functionality of different module of eWLC and coverage report was generated to check how many module and their function it was covering. Tools used (Development tools - H/w, S/w): S/W - C language, Lua Script for testing and Wireshark to analyse packet. Objectives of the project: An integrated framework for Polaris processes is developed that will greatly enhance the rapid development and unit testing with performance and is more efficient. As a way of ameliorating testability of eWLC, mock infrastructure is built using SWIFT. This framework should allow a test to mimic an external function and have it return different values. Mock functions are written to perform unit testing of the wireless functionalities and obtain code coverage. Outcomes of the project: Test cases are generated to check functionality of different module in eWLC. These results were assessed qualitatively and a code coverage report is generated. Major Learning Outcomes: Learning of c language in depth and how testing is done using scripting language using Lua script in Linux environment. Knowledge of SWIFT automation framework. Brief Description of working environment, expectations from the company: Work culture is good here. My mentor and manager were always helpful whenever i went to them with doubts. They always guided me in correct direction and they always made sure that i learnt a new thing in each stage of my internship.	2016-17-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	Currently, Web Security Appliance (WSA) which are available in the market detects malware from encrytped traffic pattern by decrypting it. Enhanced Telemetry Threat Analysis (ETTA) uses machine learning techniques to classify traffic as malware or benign without decrypting it. Thus, it avoids decryption overhead and maintains end to end integrity. ETTA is integrated with WSA as a scanner like process with scans traffic on any interface and port and output its verdicts. These verdicts are reported to administrator. ETTA logs are integrated to WSA logging module to supports rollover based on time, size etc. Further, these logs can be transfered to a remote server for reporting purpose. Reports are generated using Elasticsearch, Logstash and Kibana (ELK) which can show clients which have high chances of getting infected, servers which have high probability of serving malware, clients using weak ciphersuites etc. Admin can generate necessary access policies (monitor or block) by looking at these reports and enterprise requirements. Tools used (Development tools - H/w, S/w): Web Security Appliances, Python, C, ELK. Objectives of the project: The main objective is to secure web by detecting malware in encrypted traffic without decrypting it. Thus, it avoids the overhead of decryption and also does not violates end to end integrity policy. Outcomes of the project: ETTA is integrated with Web Security Appliance (WSA) as a scanner like process which predicts malware in an encrypted traffic pattern and reports to administrator for necessary access policy generation. Major Learning Outcomes: Working of web security appliance like logging module, health monitor, CLI modules and Web Proxy. Architecture of scanners, using machine learning techniques to predict the probability of malware in a flow. Reporting in Elasticsearch, Logstash and Kibana (ELK). Brief Description of working environment, expectations from the company: Cisco is a great place to work. You get to work on latest core and challenging technologies. Managers are very supportive and helpful. Apart from work, you get to participate in various cultural and techincal events happening all year round. You will learn to work in team and give your contribution to the project.	2016-17-sem2
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	I worked as a Software Engineering Intern in CSG (Core Software Group) PI (Platform Independence) division. I was given responsibility to explore a unit testing framework which is used to perform white-box testing on Cisco's Catalyst 3850 series (Edison) switch platform. The department being new to	2016-17-sem2

Company	Experience	Year
	ins and outs of the framework, expected us to go through the intricate details of how the framework works and provide a demonstration of the same. Tools used (Development tools - H/w, S/w): I used Cisco's Catalyst Edison switch to run my test cases. We had to use Lua scripting language to prepare the test cases. The modules of the test cases used to call C APIs via FFI (Foreign Function Interface). Objectives of the project: The prime objective of my project was to perform white-box testing of the switch platform's session management feature. To achieve that, I had to learn and explore Cisco's next generation state-of-the-art unit testing framework. With the help of this framework, one could write test cases of individual modules that make up the operating system of the switch. The test cases are written in Lua scripts which in turn call already established C APIs with the help of FFI. This main objective was further divided into two sub-objectives. First task was to capture the database modification calls and convert them to well-formed XML on the hardware. Once the XML is captured, it is parsed to mimic the functionalities and behavior of the hardware in a simulated environment, again provided by the unit testing framework. Second task was to use this simulated environment to create test-cases for individual modules of the operating system. These test cases can help to test functionalities without actually running on the hardware. Outcomes of the project: I was able to capture and replay the database calls to the functionality of a switch on a Linux system. This helped me scenario based test cases like creating an EAP (Extensible Authentication Protocol) session between the components of a network. Major Learning Outcomes: I learned a lot during these amazing 5.5 months. Apart from my technical skills and domain knowledge, I got an opportunity to improve my communication skills. I learned how to work in a team and contribute to the same. I got to apply all I knew about networking and programming during this time period. I got to learn a completely new scripting language called Lua. Brief Description of working environment, expectations from the company: Cisco is a perfect company for those who pines for a work-life balance. Apart from knowledgeable and always helpful mentors, Cisco has a beautiful environment which reflects its values. The thing about Cisco which I completely adore is the flexibility. You can choose a different career path within Cisco if you have what it takes. I would definitely recommend Cisco as a PS station. I would even recommend	

Company	Experience	Year
	Cisco to apply for a fulltime position. That is a decision, I think, one would never regret.	
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	NxOS is the OS of the NxK series of switches by CISCO targeted toward the data-center. Third party code is used for NTP, which is a protocol to keep servers in synchronization. Being the third party code it was not build using the infrastructure of the NxOS. Hence it was build separately for all the supported platforms and shipped with the OS image. NTP had lot of build issues and large number of steps to be build manually. For a manual build it required a time of a day to have a complete build for all platforms. I made the automation script and the whole process was automated and the build time was reduced to 45 mins. Tools used (Development tools - H/w, S/w): python, make. Objectives of the project: Automate the NTP build Process for NxOS. Outcomes of the project: Delivered the automation scripts documentation as required. Major Learning Outcomes: Usage of Pexpect. Brief Description of working environment, expectations from the company: Working environment in CISCO is quite chilled out (mostly dependent on your manager). Campus is awesome, lot of recreational activities. As an intern you are not much pressurized to work or follow strict deadlines. Less number of team outing. Most of the core development of CISCO is in C, so anyone would be lucky to get rid of old tech easily.	2016-17-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	My work at Cisco was integration of a Test Framework for Enterprise Network platform features. The main focus was basic integration of the framework and running test cases for different scenarios in the new test framework. The work involved understanding of the existing modules in the code and writing test cases that cover these modules. For this basic understanding of networking concepts was required. Objectives of the project: Main objective was complete integration of a new test framework in the existing platform. Next objective was to write test cases that run in the new framework. Outcomes of the project: Successful implementation of the above objectives that was instrumental in testing the existing modules of the code in a new way. Major Learning Outcomes: Understanding of C language, LUA scripting language, Operating System concepts, Networking Basics. Brief Description of working environment, expectations from the company: The working environment of Cisco is employee friendly, positive, and enthusiastic. The team members are very helpful and are always available for guidance. The management is also friendly, and there is no feeling of superiority.	2016-17-sem2
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	I worked on Emergency Lighting project. This project intended to provide a power solution in case of power failure and when building goes on UPS Battery. Tools used (Development tools - H/w, S/w): C, CDB-Selecon, 3850, Python, SNMP Objectives of the project: To provide Emergency Lighting solution. Outcomes of the project: Done. Possibly will release in near future. Major Learning Outcomes: Persistence. Other than that learned quite a lot about networking and Cisco Digital Building establishment. Brief Description of working environment, expectations from the company: It was all fine. I was provided a cubicle.	2016-17-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	I had the good fortune of undergoing my practice school program with Cisco as a project management intern under the Cisco Services function in the Project Management Team. The Project Management team is a centralized pool of project managers in Cisco who are responsible for the delivery of projects and provide exceptional value to various customers. These services portfolio includes networking, security, IoT solutions among others. Regarding my responsibilities, I was managing two projects with a senior project manager providing networking and IoT services to customers and was involved in planning, executing, monitoring, controlling and closing of the project. This involved proactively engaging with clients, partners and internal stakeholders, managing project scope, schedule and costs and managing resources such as solution architects/network engineers for successful project completion. Apart from that, I was also involved in internal activities such as creating a tracker for the project management team which acts as a repository on the projects delivered as well as being delivered as well as was part of various training sessions on domains like IoT, Wireless and others. Surely, this practice school provided a great learning curve personally and professionally. Tools used (Development tools - H/w, S/w): Oracle Project, Primavera P6, Tableau, Microsoft Excel, Internal Cisco project management tools. Objectives of the project: Project management of fixed price engagements and project management support activities. Outcomes of the project: Successfully managed assigned fixed price projects. Completed 150+ project management support activities for senior PMs. Major Learning Outcomes: Got exposure to apply project management processes to real projects Trained on various project management tools Got exposure to various technologies such as Wireless, IoT, software Defined Networking. Brief Description of working environment, expectations from the company: The working environment is quite smooth in project management team in Cisco. It definitely demands focus and good interpersonal skills from its employees and interns alike. My expectations from the company was to get a platform wherein I can apply my learning in college to real live projects as well as get to learn new skills and tools and both these expectations were fulfilled in this internship.	2016-17-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	Worked on performance improvement of Email Security Product. Tools used (Development tools - H/w, S/w): vi, cscope. Objectives of the project: Troubleshoot a performance issue with Email Security Product. Outcomes of the project: Narrowed down the reasons for performance drops by eliminating variable components. Major Learning Outcomes: Team work, E-mail architecture. Brief Description of working environment, expectations from the company: Helpful mentors and colleagues.	2016-17-sem2
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	The aim of the project was to carry out network traffic prediction. Assuming data usage in an academic institution, I had to generate network usage data and carry out computations on the generated data to predict various network parameters. I used python and its packages (scikit-learn, matplotlib, etc) to facilitate the computations as well visualise the obtained results. Tools used (Development tools - H/w, S/w): Python, its packages. Objectives of the project: Network Traffic Prediction. Outcomes of the project: Prediction about the clients connected and various other network statistics. Major Learning Outcomes: Machine learning, Python Proficiency. Brief Description of working environment, expectations from the company: Working at Cisco has been an amazing experience. Interning at a company which is a market leader in networking was a great learning expedition for me. Cisco is a global company and with several cross-functional teams. It is a perfect blend of management and technical and thus gives several opportunities to learn various skillsets. I was a part of the Core Software group (CSG) - wireless in the Engineering department. As a part of the team working on the 802.11 protocols, my task was to carry out network traffic prediction. The internship allowed me to further explore and implement the concepts I've learned in my classroom, thus fulfilling my Academic learning objectives I got to interact with Director and various other senior managers who gave me career advice which will definitely be helpful in my long term career. These 5 months of PS at Cisco Systems has given me a smooth transition from academia to industry.	2016-17-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	I was lucky for getting a chance to work in Security BU in Cisco. I had two main milestone to achieve as part of my internship process, first was to write a wrapper on top of the existing code layer inorder to access all the Remote Procedure calls. This was supposed to be done in Java, and as i was very new to Java, i really got a chance to learn a lot. On the other hand i had to build a UI widget in ReactJS. This java script is very new in the market, so was very excited when i gotta a chance. I also wrote backend code to populate required things in the widget. Apart from the work, people around Cisco are really helpful, work culture is good, and most of all people here are not bothered if you come to office or not, what really matters to them is Work. Overall i would recommend students to join Cisco. Tools used (Development tools - H/w, S/w): Java. Objectives of the project: Develop UI widget using ReactJS and develop wrapper to access RPC calls Outcomes of the project: I could successfully complete it. Major Learning Outcomes: Learnt Java. Brief Description of working environment, expectations from the company: Environment is very good, nice Work Culture and employees here are very helpful.	2016-17-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	My work was mainly based on retrieving the required information from unstructured objects. My goal was to analyze the unstructured data and develop a command line tool to extract the required information from the unstructured data store. In my project, graph visualization was also involved to visualize the dependencies among the unstructured objects. All the project development phases design, coding, testing were involved in developing the solution to handle complex unstructured objects. All the project development phases design, coding, testing were involved in order to get the required outcome. Tools used (Development tools - H/w, S/w): perl programming, graphviz, graph databases e.g. neo4j. Objectives of the project: My project objective was to resolve referential integrity issues from the unstructured data store. To check all the dependencies among various objects, I developed a tool with all sort of referential analysis capabilities to maintain the integrity of the data. Outcomes of the project: I developed a command line tool to perform referential analysis among the unstructured data objects in the data store. The tool provides basic commands to handle all kinds of referential integrity issues including removing the dangling references from unstructured objects. Major Learning Outcomes: It was the first time for me to work on Perl programming. I learned Perl programming from basic to advance. I worked on Cisco security product. It took some time to understand the code base, then it became easy to use already existing APIs. During the project, I learned about many code optimization techniques. To visualize the dependencies, I used Graphviz Perl library and neo4j graph database. Brief Description of working environment, expectations from the company: The working environment is very friendly in Cisco. My mentor gave enough time to understand the codebase and development tools they use. He cleared all my doubts during the course of the internship. The main focus was on learning. I interacted with many people to understand the existing codebase. Many series of discussions lead me to get my project done successfully. Cisco is networking based company, but I got the work related to unstructured data. It is not necessary that if you choose Cisco, you will be working in the networking field.	2016-17-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	I learnt in depth about Django framework, how to work on an end-to-end platform. I developed a lot of applications and functionalities on the operational portal. I was also asked to build an NLP parser for the same portal. Tools used (Development tools - H/w, S/w): UCS C series M240, CentOS, Python, NLTK library, MySQL. Objectives of the project: Build a business internal platform for better team utilization and monitoring purposes. Outcomes of the project: A operational excellence portal which allows efficient team utilization. Major Learning Outcomes: Python, Django, MySQL. Brief Description of working environment, expectations from the company: Cisco offers a supportive, understanding and encouraging atmosphere. Cisco is filled with opportunities needing to be explored. I'd recommend it as a PS2 station	2016-17-sem2
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	Worked in security domain under SBG unit on a product NGSMA. It is a cloud based product which manages email and web security appliances of the organisation. Worked primarily on UI and automation. Tools used (Development tools - H/w, S/w): Angularjs, node js, cucumber, java. Objectives of the project: NGSMA is a next generation cloud based product that will manage the security requirements of the organisations. I worked on UI and build an automation library for the project that will be used for automation test cases enabling behaviour driven development. Outcomes of the project: Project is approaching beta release and my work will be used for production, we did few poc's and build our library on top of that. Major Learning Outcomes: It was a very good experience to work a product that is approaching beta. Learned to write production ready code under tight deadlines. Steep learning curve for few technologies and was exposed to a wide range of technology stack. Brief Description of working environment, expectations from the company: Cisco has an amazing campus and talented workforce. Our mentor is awesome in terms of knowledge and support. It is a really good experience to work in Cisco.	2016-17-sem2
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	This Wireless LAN Controllers (WLC) are often unable to provide connection because of certain issues, which relate to the client end or the provider or the means of connection. These issues also known as flags hamper the productivity of the business and must be resolved as soon as possible. Manual techniques are quite slow and in this world of fast technology, it is imperative to provide for automatic and intelligent solutions for such errors. The aim of this is project is to develop a tool that extracts the log data of the Access	2016-17-sem2

Company	Experience	Year
	Points and WLCs for developing an algorithm in order to detect frequent errors and suggest ways to prevent them. Tools used (Development tools - H/w, S/w): Elasticsearch, Logstash, Kibana, Hive. Objectives of the project: The purpose of the system is to make the process of finding faults in the process of clients life cycle in the existing networks easier to find. No previous system existed for the same and the technical administrators had to manually download every log related to a particular user and thereafter find the anomalies. The proposed system is meant to remove this manual work by displaying all important log data on a dashboard which can also be dynamically queried. Outcomes of the project: The health monitoring system is an improvement over the previous system as the amount of time consumed in the same process without the help of this tool can be 5-10 times more. The health monitoring system is an end point tool for the clients of Cisco's widespread wireless LAN controllers as well as workforce in Cisco who aim to troubleshoot the problems encountered by clients on a day to day basis. The logs are sent in from the wireless LAN controller in real time while the Logstash script continues to ingest it into the NoSQL database Elasticsearch. Next, the integration between Apache Hive and Elasticsearch allows to query from Hive into Elasticsearch and output the results onto a CSV file. This CSV file in ingested back into Elasticsearch so that Kibana can access the results and display them in the form of visualizations such as graphs, pie charts and time series graphs. Major Learning Outcomes: Working on the project "Health Monitoring System for Wireless LAN Controller" has given enormous amount of knowledge on different fields of study. During the project I learnt corporate environment skills and time management also. Brief Description of working environment, expectations from the company: Working at Cisco has been an amazing experience. Interning at a company which is a market leader in networking was a great learning expedition for me. Cisco is a global company and with several cross-functional teams. It is a perfect blend of management and technical and thus gives several opportunities to learn various skillsets. I was a part of the Core Software group (CSG) - wireless in the Engineering department. The internship allowed me to further explore and implement the concepts I've learned in my classroom, thus fulfilling my Academic learning objectives. I got to interact with Director and various other senior managers who gave me career advice which will definitely be helpful in my	

Company	Experience	Year
	long term career. These 5 months of PS at Cisco Systems has given me a smooth transition from academia to industry.	
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	The BU I worked under, comes up with a new release every 3 months or so. Every project of the BU is required to be uploaded in a portal that is for book-keeping of what all assets they have used in the project and to check if the dependencies used in the project have any updates (since, these are open source, they can be updated). As of now, the addition of these assets to the tool is being done manually. The aim of our project was to automate this process using a maven plugin. Objectives of the project: Automation. Outcomes of the project: This project can be turned into a tool, and that would provide the employees with an easier way of adding and managing projects on their portal. Major Learning Outcomes: Build Systems - Apache ANT and Maven; learned how to use many java packages; got an exposure to shell programming. Brief Description of working environment, expectations from the company: Working at Cisco has been an amazing experience. Interning at a company which is a market leader in networking was a great learning expedition for me. Cisco is a global company and with several cross-functional teams. It is a perfect blend of management and technical and thus gives several opportunities to learn various skill sets. I was a part of the Hosted Collaboration Solutions (HCS) BU in the Engineering department. As a part of the team, I was assigned an automation project which the employees have been doing manually till now. The internship allowed me to further explore and implement the concepts I've learned in my classroom, thus fulfilling my Academic learning objectives.	2016-17-sem2
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	The work mostly comprised of designing and developing software for the precise time protocol simulator. Tools used (Development tools - H/w, S/w): Software. Objectives of the project: IEEE 1588 Precise Time Protocol Simulator. Outcomes of the project: Packet Field Validation. Major Learning Outcomes: Programming and networking concepts. Brief Description of working environment, expectations from the company: The working environment is amazing, specially the work culture. It gives time for a person to explore different things.	2016-17-sem2
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	I worked on mapping of vendor neutral data models (written in YANG) developed by OpenConfig. It is an informal working group of network operators sharing the goal of moving our	2016-17-sem2

Company	Experience	Year
	network toward a more dynamic, programmable infrastructure. They aim to achieve their goal by adopting Software defined networking principles such as declarative configuration and model driven management and operations. Their Initial focus is on compiling a consistent set of vendor neutral data models (written in YANG) based on actual operational needs by consulting with various network operators. As there are many data model sub-trees. I worked on local routing feature of Network Instance Model. A network instance is defined to be discreet forwarding table on a network element, which contains Layer 3 and Layer 2 protocols entries. Each network instance may instantiate its own sets of protocols which control installation of forwarding entries into one or more tables (which may be Layer 2 FIBs (Forwarding Information Base), or Layer 3 RIBs (Routing Information Base)). This model is very useful for Internet Service Providers. As every customer requires different set of services. For example one may require L2 and L3 layer VPN services and other may require only Layer 3 services. This YANG data model is constructed to configure and retrieve operational data related to such instances. Local Routing belong to layer 3. It contains set of static routes manually configured by network administrators. We need to map Open config data model to Cisco Specific model. It requires both forward and reverse mappings. In case of router configuration only forward mapping functions will get hit while for retrieving router operational and configuration data both forward and reverse mapping functions will get hit. Tools used (Development tools - H/w, S/w): C and Python. Objectives of the project: Development of local routing feature for Network Instance Model. Outcomes of the project: Able to configure local routes for different network instances and streaming telemetry for network monitoring. Major Learning Outcomes: Learned about YANG Data modelling Language, NETCONF protocol, SNMP protocol, Unit Testing Automation of Software. IOS XR Architecture, Web based training for course titled Internet of Things in 5G. Brief Description of working environment, expectations from the company: Cisco is a large organization which deals with various technological aspects. They have both hardware and software opportunities in various fields. Work is mostly team oriented. Work is a mix of development and Quality improvement of code. In Engineering Department you need to take collaborate with teams of different domain expertise. Work culture is good and people are very helpful. There are	

Company	Experience	Year
	good amount of learning opportunities within Cisco. Learning and Development Department of Cisco offers you a wide variety of paid courses for which expenses will be taken care by your manager. You can opt for them within budget allocated to each employee. You can easily switch between teams. It offers you a wide variety of choices as its spectrum of work is huge. Work timings are flexible. Cisco Bangalore campus has a Medical Center. It also has sports, gym and yoga facilities all of them free of cost for employees.	
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	Working in Email Security on the process of Automation of various Engines Updates which is already in place in Cisco as a manual setup. Tools used (Development tools - H/w, S/w): Python modules - Pexpect, Paramiko, Boto3. Amazon Cloud Services - Dynamodb, S3 Service jQuery, Javascript, Html. Objectives of the project: The major objective is to automate the entire process of Engine Updates which is running manually now, depending upon the engines the process of automation is concluded specific to every engine. Outcomes of the project: Able to finish the process of automation for one Engine Graymail in Cisco environment in the PS tenure. Now the autoamtion has taken upon the manual process thereby reducing the manual effort. Major Learning Outcomes: 1.Learning to work with the Amazon Cloud Services. 2. Python language and the major modules including Boto, Paramiko, Pexpect. 3. Integrating the modules and working by writing codes which connects Amazon Services using API AND Python language 4. Automate the entire manual process of engine validation for the respective engines. Brief Description of working environment, expectations from the company: Working environment in Cisco is pretty good, there is certain balance which exists here. Tech leads and mentor are always ready to help. If you wish to learn, they provide a very suitable culture to learn and implement the work. In the end, a great internship form Cisco.	2016-17-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	Developed a workflow engine to create the telemetry payload for some proprietary devices. Model driven telemetry requires extensive programming to create the telemetry payload. This process was simplified by a tinplating process, dividing the program into smaller parts, and using a workflow approach to join them together. Tools used (Development tools - H/w, S/w): MxGraph API, Ptolemy, HTML5, javascript, Angular JS framework, Java, spring framework. Objectives of the project: To develop a workflow engine to create telemetry payload for Cisco devices Outcomes of the project: To develop a UI and backend to create telemetry payload. To automate the process of telemetry payload creation. Major Learning Outcomes: learned about workflows, how workflows can be used to automate tasks. learned basics of web development. Brief Description of working environment, expectations from the company: The working environment is stimulating in terms of the help you get from mentors and colleagues. There are no hard and fast deadlines for projects. But the sooner you finish, you will get to learn new things.	2016-17-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Machine Learning ,	The project is to increase the overall conversion rate of their incoming enqueries or leads. To do this I worked on a lead scoring model which finds the likelihood of the customer joining the programme, from the characteristics of the customers. Tools used (Development tools - H/w, S/w): R, Python, Machine Learning, Excel. Objectives of the project: To predict the quality of the incoming customer queries or leads, score them and assign it to the counselors accordingly to increase the overall sales. By Quality here, we mean the probability of a particular lead being converted to a sale. Q1) Is there a way to determine the quality of the leads before they are assigned? Q2) What are the important parameters that will affect the quality of the lead? Q3) How to quantify the quality of the Counsellor? Q4) What is the appropriate method of lead assignment to the counsellor which will optimize between the increase in overall sales and employees incentives and motivation? Outcomes of the project: A lead scoring model where we can score which predicts it's quality and in an aggregate level its conversion. A lead assigning model where leads are assigned to different sales counsellors based on their sales record. The lead scoring model is to be used as benchmark marketing activities with objective to increase the score of leads. Major Learning Outcomes: Predictive Analytics and machine learning algorithm. Brief Description of working environment, expectations from the company: Work is good. The project allotted could vary a lot depending on the requirements. They respect the interns a lot and the work you do is most likely to be implemented. The stipend is great. If you intend to be an entrepreneur, you'll learn a lot about what goes behind running a business. I personally got to learn about every department in EduPristine as well as about the market and customers. The bad part of it is having a six day workweek.	2016-17-sem2
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	Bangalore	2018-19-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	Intrducing a feature of command accounting for Calvados VM for E-XR platforms which don't have any dedicated connection to the TACACS server. Tool used (Development tools - H/w, S/w) : C, Python, Google ProtoBuffer, XML and ACME Tools Objectives of the project : Developing IPC between XR and Calvados to enable command accounting service for calvados for E-XR platforms. Major Learning Outcomes : learned UT automation, Proto Buffer Implementation Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : NONE	2018-19-sem2
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	I have been working on verification of Fibre channel switching module. Here I learnt various aspect about verification like How to create environment to test modules . Wrote Attributes and test cases for testing some assertions and coverage in the project . I really enjoyed working here , people are very cool . Tool used (Development tools - H/w, S/w) : Synopsys VCS , Mentor Graphics Questa are two simulation tools . Objectives of the project : Verification of Fibre channel Switch Major Learning Outcomes : 1. Build Environment for Testing Module. 2. Writing test cases and assertions . Details of Papers/patents : Brief Description of working environment, expectations from the company : I really love Working here . People are very helpful , they are ready to help whenever you need . There are team outings which is very enjoyable. Academic courses relevant to the project : VLSI Test and Testability.	2018-19-sem2
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	Developing an IPC for transferring command accounting logs from calvados VM to XR VM using google's protobuffer and do the unit automation testing for the same. Tool used (Development tools - H/w, S/w) : C , Python, XML, Protobuffer, Objectives of the project : To Enable Calvados Accounting for E-XR platforms Major Learning Outcomes : Gained good knowledge to develop IPC using Protobuffer. Learned about the working of TACACS and AAA servers. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : NONE	2018-19-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	Roles and Responsibilities: 1. Implement Report Automation using Python language for different weekly/monthly reports. 2. Perform Business Analysis on Vendor and Partner data based upon management requirements. 3. Handle AS Fixed cases, publish report & provide bookings and invoice hold related support. 4. Carryout data research to collect the relevant data to cater to different BI models. Tool used (Development tools - H/w, S/w) : Python, Tableau, MS Excel & Powerpoint Objectives of the project : 1.Productivity Improvement. 2.Business Analysis Major Learning Outcomes : Report Automation using Python, Business Analysis and Data Visualisation Skills Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : Work environment is ideal when it comes to corporate world. There is enough freedom to think, express and come up with solutions to business problems. The team members, although being senior, don't hesitate in mentoring and helping to resolve the queries and provide suggestions to enhance the quality of deliverable. Manager as well as the team mentor takes very good care of out interests and allocate tasks accordingly as per our skills and capability. More emphasis is given on quality learning and providing sustainable solutions to business problems. To summarize, the work environment is same as one must expect from Fortune Top 500 companies. Academic courses relevant to the project : Data Analytics and Quantitative Methods	2018-19-sem2
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	Developed a GUI support for Redfish (RESTful interface) for managing Cisco C-series server. Implemented a Redfish Schema validator (at front end) for validating queries. Ported interface modules from LUA language to C for its lightweight execution. Used version control software (Git) to track source code. Tool used (Development tools - H/w, S/w) : Javascript, CSS , HTML,JSON parsing technologies Objectives of the project : GUI support for Redfish Interface to navigate through data model and help QA and Dev-Ops for debug issue. Major Learning Outcomes : Web development tools and Programming techniques Details of Papers/patents : - Brief Description of working environment, expectations from the company : The working environment of organisation is quite dynamic. Its a great work environment, anyone from a colleague to a senior level director is quite approachable and open to discussion. Academic courses relevant to the project : Web development	2018-19-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	Worked on a cross platform internal testing tool ("samosa") for Cisco AnyConnect's NVM module. NVM had new features and the internal testing tool needed test support to test those new features. Tool used (Development tools - H/w, S/w) : S/w : Python Objectives of the project : To add test support for new features in AnyConnect's NVM to the internal testing tool - samosa, and improve it. Major Learning Outcomes : Python, Cross Platform Development and Testing Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : The working environment and team has been very helpful throughout the internship and has helped me learn a lot. Academic courses relevant to the project : N/A	2018-19-sem2
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	Scripting in Perl for automation of certain verification flows. Writing Test cases in System verilog. Tool used (Development tools - H/w, S/w) : vcs, questa sim Objectives of the project : Verification flow automation, Block level verification using SV Major Learning Outcomes : Learnt System Verilog, Understood how massive h/w projects are handled at industry level Details of Papers/patents : Brief Description of working environment, expectations from the company : Great company for doing PS. Friendly team members, Flexi timings - - Team dependent. Great opportunity to learn. Projects will be likely based on your interest. Academic courses relevant to the project : VLSI Test and Testability(System Verilog), Digital Design, VLSI Architecture, VLSI Design	2018-19-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	I was assigned a role of Project Specialist in the Project Management team. Project Management Team is the team responsible for effective and efficient management of various projects for customers for different architecture / technology areas as available in the portfolio of Advanced Services such as Datacenter, Security, Mobility, Networking and others. Tool used (Development tools - H/w, S/w) : WebEx, Primavera P6, Oracle Projects- PM, Oracle Projects-Admin, PSS tool, BAT2, Next Gen SOW Central, Cisco Commerce Website, Service Now Objectives of the project : To ensure smooth functioning and execution of various activities that constitute a project cycle. Major Learning Outcomes : 1. How a project transitions in various project management stages 2. Collaborative and team building approaches for proper functioning of cross functional teams 3. Stakeholder management Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : NA	2018-19-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	Worked on full-stack web development to create a SAN Health web application, for the health monitoring of the SAN-DC(Storage-Area-Network Data Center) for Cisco's DC customers. Worked on technologies like ReactJS for frontend, NodeJS for hosting the web application on the local server, Python flask server for the backend, and MongoDB, for the database management. Also, developed a network traffic monitoring application, using 'Grafana' for visualization, gRPC for server-client interaction from the SAN switches to the local machine, and InfluxDB as a timeseries database for storage, and plotting of the graphs in Grafana. Tool used (Development tools - H/w, S/w) : ReactJS, NodeJS, Python flask, MongoDB, InfluxDB, Grafana Objectives of the project : To get an overall view of the SAN DC network and get familiar with full-stack web development Major Learning Outcomes : Full stack web development, Time series database Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is quite friendly, everyone is easily approachable on the team. But, mostly you are left on your own to figure out the exact design choices for achieving your particular objective, which gives you a lot of flexibility to experiment with things, before going ahead with implementation. For example, I was just given a problem statement to make a web application, which can achieve certain goals, but the exact design choices to make were left upto me. Academic courses relevant to the project : Database Management System (DBMS), Computer Networking, Web development	2018-19-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	TLS v1.2 enabled sites used to give the certificate in the plain text. But, TLS v1.3 protocol took the security and performance to the greater heights. TLS v1.3 protocol started encrypting the server certificate providing greater security and by introducing 0-RTT it provides enhanced performance. But, introduction of encrypted certificate leads us into the trouble, if some hackers using TLS v1.3 protocol try to send some malware into our systems. If we know the server certificate, this problem can be avoided. Because, certificate gives us the authenticity of the server. Certificate helps us in blocking such Malware content from entering our systems. My work during internship was to get the certificate of the server so that we can make a decision regarding whether to allow the traffic or block the traffic. This is one of the policy decision that can be used for SSL decryption. Tool used (Development tools - H/w, S/w) : openSSL, Python, c, wireshark, Working on switch Objectives of the project : Getting the certificate of TLS v1.3 enabled sites Major Learning Outcomes : I got to work on the trending security protocol i.e TLS v1.3 with different development tools which I never worked on before Details of Papers/patents : Brief Description of working environment, expectations from the company : Work environment was pretty awesome. Everyone was so helpful. Especially, my mentor. He is so cooperative and approachable. As this is a new area where they are experimentaing on, Their expectations were pretty simple. They wanted me to make a POC of my project before actually start working on the switch. Academic courses relevant to the project : Computer Networking	2018-19-sem2
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	Polaris migration Tool used (Development tools - H/w, S/w) : C language on Linux O.S. Objectives of the project : Make file conversions from viptela modules to polaris components Major Learning Outcomes : Make file analysis and enhancing debugging skills Details of Papers/patents : None Brief Description of working environment, expectations from the company : Working environment is diligent . No such expectations from the company . Academic courses relevant to the project : Networking and Cryptography	2018-19-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	One of the major components of WebEx Meetings is a SIP proxy which is deployed on various nodes across all data centres. Different teams are continuously working on various solutions related to WebEx Meetings which requires changes in the versions of applications deployed on different nodes. There is no way consolidated to track the changes at the management level and our team is facing the various problems which requires a comprehensive view of all such nodes. Hence, the aim is to build a global dashboard that provides comprehensive view of all SIP proxy nodes across all data centres. Tool used (Development tools - H/w, S/w) : Django, Python, Nginx, Gunicorn, Docker, Jenkins, Ansible, Objectives of the project : To develop a dashboard for SIP proxy nodes across all data centres. Develop the dashboard end to end from design to development to deployment. Major Learning Outcomes : Got to design and develop the project end to end. Got to learn and work on various technologies. Got used to the DevOps way of development. Got exposure to Agile way of development Details of Papers/patents : - Brief Description of working environment, expectations from the company : The work culture of the company was very encouraging and supportive. The interns were allowed to access all the resources such as VMs, source code, Docker registry equally as a full time employee. I was given an opportunity to build a project from scratch. The mentor allocated was very helpful and supportive throughout the internship. The project manager was very encouraging and recognised the work done. In short the work life balance and working environment was very motivating and enriching. Academic courses relevant to the project : Basic Language course, Software Engineering Projects	2018-19-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	Implemented part of a firmware update and support utility in c. The utility resides within BMC and is able to intelligently decide the type of channel to be followed in real time by analysing the request data. The utility is a daemon and is able to work as a intermediary between client side and the host(server) such that it is a management engine that drives the overall firmware management. Tool used (Development tools - H/w, S/w) : C & Golang Objectives of the project : To develop a utility as part of a feature to be deployed in the upcoming release. Major Learning Outcomes : Clean and secure coding practice, Understanding the working of the server domain. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : C and C++, Data structures.	2018-19-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	Security Management Appliance (SMA) comes under Content Security of Security Business Group in Cisco. It Centralizes management and reporting functions across multiple Cisco email and web security appliances. Cisco Email Security Appliance (ESA) is used for email security and high availability email protection against dynamic, rapidly changing threats affecting our organisation while Cisco Web Security Appliance (WSA) is used for web security.SMA portal UI is split into 4 categories namely login, reporting, tracking and quarantine and each of them is a Single Page Application (SPA). Aim is to design Data Availability component that comes under reporting part of next generation Security Management Appliance web portal, both UI development using Angular JS and TypeScript and Backend using Python. Another task is a POC where I need to make a Spring boot application using Redis as Cache , to understand how Redis can be used as Cache mainly to solve some issues in Cloud Email Security. Tool used (Development tools - H/w, S/w) : Sublime text, PyCharm, NGINX, Tomcat , Spring Tool Suite, Postman Objectives of the project : To introduce me to UI development and also how to expose out API endpoints from backend. To bring a cost effective solution by using Redis as cache on cloud Major Learning Outcomes : Angular JS, TypeScript , Python Programming , Spring Boot Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : Working environment was really good. I loved being a part of my team as all the team members are very helpful and co-operative especially my Mentor. His valuable guidance helped me a lot.Manager is also very approachable. It was overall a very good experience. Academic courses relevant to the project : N/A	2018-19-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	Developed a GUI support for Redfish (RESTful Interface) for managing Cisco C-Series Server. Applied Javacript, CSS and Json Parsing technologies to create user-oriented visuals and features.It is an interactive GUI that allows a user to view parts of Redfish namespace, display resources & URI within each resource, using HTML browser. Used version control software (Git) to track source code. This avoids the use of cURL command which is more tedious as everytime we need to provide authentication credentials. The GUI is more user friendly and provides a better visual implementation. The hyperlink used in UI will make it easier to browse the box completely & also aids to debug faster than using multiple times cURL command. It can be used by QA, Developers and TAC. Also worked on ongoing project of cRedfish where i have ported interface modules from LUA language to C for its light weight execution. Tool used (Development tools - H/w, S/w) : JavaScript , CSS , HTML Objectives of the project : GUI Support for Redfish Interface on Cisco C-Series Server Major Learning Outcomes : Understand the requirement , design the proper work flow to achieve task and prioritizing the tasks. Writing good quality production code , presenting project demo. Explored the architecture of web applications and the technologies that are used in the three main components: client, server and data store. Details of Papers/patents : Brief Description of working environment, expectations from the company : Great Experience. Learnt many new things during the tenure of my internship and enjoyed working with my team. There will be lot of options to learn and improve your knowledge.Overall great work environment, anyone from a colleague to a senior level director is quite approachable and open to discussion. Academic courses relevant to the project : Web/UI Development	2018-19-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	The Cloud services provided by Cisco need a platform to be hosted on the infrastructure made available by various cloud providers. Our team facilitates and maintains the much needed platform. The platform is responsible for creating/deletion nodes, scaling up/ down of the service, managing the hardware requirements of the application and the continuous monitoring. My project is concerned with the continuous health monitoring of each node. Presently there is an application in place that monitors the health of each node and in case of a failure, the person on pager duty is notified. My task is to monitor each process on a node and in case of failure have a web page display it. Tool used (Development tools - H/w, S/w) : Django Framework , jenkins, docker Objectives of the project : TO develop a service monitoring App Major Learning Outcomes : How the cloud services are implemented and maintained in an organisation. Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : At cisco, you get to learn a lot from your team, not only in terms of academic knowledge but technical skills, soft skills. Everyone is very helpful in case you are stuck on your project. As an intern, i worked with a geographically dislocated team, but there werent any hassles in communication or lack of technical help. Even as interns, we were asked to emphasize on work life balance and complete your deadlines. All in all, its a great place to work ! Academic courses relevant to the project : Computer Networks, Network Programming	2018-19-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	Designed the Node Functional View of an ONS Node. Node view enables users to view and manage ONS 15454s that have DCC connections to the node. It is a Cisco Optical product which is essentially an Element Management System that helps the management of a network element. In this all data is displayed in a graphical/diagrammatic format instead of tables which will help the user to access the data related to ports, optical patch cords and the cards involved in the connections. The end user will be able to see all relevant information at one place in a much easier to comprehend kind of way. The idea was further taken ahead to extend the view to a manager which will allow the provisioning of patch chords and line cards from the view itself. Technologies used: ReactJS, Javascript, HTML, CSS Tools Used: Figma, VSCode, Intellij, Cisco-NSO Tool used (Development tools - H/w, S/w) : Javascript, ReactJS, CSS, HTML, Figma Objectives of the project : To design the Node Functional View of an ONS node in the network with configurable options for the node. Major Learning Outcomes : Learnt to write code in a large scale application. Learnt industry standard of coding. How to write manageable code. Frontend Development. Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : The working environment was really positive. Everyone including mentor and manager were very helpful and encouraging and always pitched whenever help was required. The work assigned was challenging and a great learning experience. Academic courses relevant to the project : N/A	2018-19-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	I have completed preprocessing stage which includes data cleaning, encoding and dimensionality reduction. Clustering using DBSCAN, HDBSCAN has been performed. During inspection of both results it has been found out HDBSCAN has more noise compared to DBSCAN. For cluster analysis REST APIs are developed using Flask server, MongoDB and deployed in Postman Framework. To predict new endpoints Apache Kafka streaming has been used. Testing needs to be performed using Pytest framework. Tool used (Development tools - H/w, S/w) : Python, Pycharm, Apache Kafka, MongoDB, REST API's Objectives of the project : Build Machine Learning model to predict new devices Major Learning Outcomes : Machine Learning, Apache Kafka, MongoDB Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : Everyone is friendly and cooperative. Mentor gave constant guidance in every phase. Academic courses relevant to the project : N/A	2018-19-sem2
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	The Telephony Spark Bot is made to provide anytime, anywhere access to data to the employees. The employee just type in query as an input and the bot pulls data from the production databases or appropriate portal and reply back to the user. The data is pulled in two ways, through direct connection to database and through Restful API. The Bot takes natural language input from the user, cleans the input and searches keywords from it, the keywords or entities are collected and sent to the routing engine. The routing engine then tries to identify the intent of the user. When found, it routes the flow to the intended functionality with the entities as inputs. The specific function processes the entities and returns the desired result, which is then pushed to the bot space. The Bot is made proactive in nature, so if multiple failures/Errors happens, the bot gives a notification to the required bot space. It also provides a link in description where the problem can be handled from. The Bot also checks changes/delta in logs, if any, is immediately pushed to space. It also understand human language as it is programmed with natural language processing (NLP), a component of Artificial Intelligence. This makes the bot communicate in a meaningful and interactive way. Tool used (Development tools - H/w, S/w) : No hardware tools, Software tools used are Nodejs, Python, Restful api's, VM Servers Objectives of the project : Telephony spark bot is a employee solution that answers employee queries using API calls to different production databases, portals and knowledge bases. Major Learning	2018-19-sem2

Company	Experience	Year
	Outcomes : Nodejs, Bot framework, Python, Rest api's Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Cisco engineers work in variety of fields to analyse, develop, and evaluate large-scale, complex systems. For this, they are continuously in need of production databases, portals and knowledge bases to access data in their day to day work. The data is distributed in so many platforms and portals, making the process to access data difficult to remember and time consuming. Analysis of data, logs is done manual or with very little automation. Threat and bug evaluation is done manually, hence time consuming. To solve this problem, Telephony spark bot helps employees to get access to data easily, faster and without manual authentication. The employees can access data just by chatting with the Bot. This solution will provide easy access to all portals and production databases, hence increasing employee's efficiency. Academic courses relevant to the project : Nodejs, Python, NLP	
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	Security scanning of various Cisco products is necessary. Not only just scanning regularly but automating them to run continuously helps us in dealing with the security issues in a better way to ensure the Stability and Security of the products. I had to debug and stabilize various security scan scripts using different tools. Tool used (Development tools - H/w, S/w) : Python, Jenkins Objectives of the project : Debudding and Stabilizing the various security scan scripts Major Learning Outcomes : Learnt Python, Jenkins automation tool and various security tools Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Great experience working in this organization. The work culture and learning opportunities are really good for any fresher. Academic courses relevant to the project : None	2018-19-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	Created an alert monitoring system, the picks out interesting alerts from all the alerts generated by Nagios(system health monitoring software). The model built, uses isolation forest anomaly detection algorithm to isolate interesting alerts. The model further identifies the causative hosts by using statistical analysis. Tool used (Development tools - H/w, S/w) : MySql, Jupiter notebook, Nagios Objectives of the project : Identify interesting alerts from system health monitoring alerts generated by Nagios Major Learning Outcomes : Python programming, databases and their integration, application of machine learning concepts, email clients , REST APIs. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Databases Management Systems, Machine learning	2018-19-sem2
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	Deployment of VM in redhat virtualisation to support cisco asav. Tool used (Development tools - H/w, S/w) : Postman,C++,python,Rest API Objectives of the project : Deploy the VM with userconfig management ip Major Learning Outcomes : REST API,LINUX,UCSM FRAMEWORK Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : NA	2018-19-sem2
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	1) Understanding of the RTL design 2) wrote Test cases for the verification of functionalities of RTL design. 3) Regression Testing. 4) ECC testing Tool used (Development tools - H/w, S/w) : Synopsys VCS Mentor Graphics Questa Objectives of the project : Verification of Fibre channel line card. Major Learning Outcomes : 1) writing verification environment 2) Doing Testing 3) Debugging 4)writing Test cases Details of Papers/patents : Brief Description of working environment, expectations from the company : Very Good Academic courses relevant to the project : VLSI test and testability	2018-19-sem2
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	My job is to do optimize the Current ACL's for better outcome results at router side Tool used (Development tools - H/w, S/w) : C, C++, Python Objectives of the project : Optimising ACL's Major Learning Outcomes : ACL Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Working Culture is great here. Academic courses relevant to the project : Computer Networks	2018-19-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	Worked on a firmware update utility, more specifically on the out of band components - BIOS, VIC adapters etc. The utility aims to reduce the maintenance downtime window for the host customers and also to extend the utility support for the Cisco Intersight team. The work done is part of Cisco proprietary release and is applicable to both Rack and Blade server types. Tool used (Development tools - H/w, S/w) : C, Cisco proprietary hardware Objectives of the project : To develop a utility to manage firmwares efficiently Major Learning Outcomes : Learnt the domain of Rack servers. Details of Papers/patents : Not Applicable. Brief Description of working environment, expectations from the company : The work environment is very dynamic and fast paced and follow CI/CD flow of software development. The company as a whole has a welcoming culture. Academic courses relevant to the project : None	2018-19-sem2
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	Developed a Controller that will provide security to IoT Devices connected to network and controller will enforce the context specific policies defined by the manufacturer of the device on to the network. Tool used (Development tools - H/w, S/w) : Frree Radius server, Switch, Intel Gateways, Raspberry, Linux Objectives of the project : To provide security to IoT Devices. Major Learning Outcomes : Completed the RFC implementation end to end working. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Python, Perl, Database(MongoDB), Networking Basics	2018-19-sem2
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	1.) Environment bring up to analyse power consumption for the design block using ANSYS Power Artist. 2.) Analysis of power critical components to minimise average power consumption across design block. 3.) Application of low power techniques and other possible architectural and design changes at RTL level to optimise power. Tool used (Development tools - H/w, S/w) : ANSYS - Power Artist Objectives of the project : Analysis and optimisation of power at RTL level Major Learning Outcomes : Learned the various low power techniques and approaches for possible changes in logic of the design for optimisation of power. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : VLSI Architecture, Verilog	2018-19-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	After learning basics of Kubernetes and Golang, I got started with the implementation of the clear subscriber command on ops-center cli. This command sends a HTTP request to the rest-endpoint and the rest-endpoint in turn sends it to the smf-service via gRPC. After this I dealt with the show subscriber command. The fact that this command ends up calling all other microservices and that it aggregates all the responses before sending it to the command line user made it trickier. At this point my mentor noticed that having rest-endpoint accumulate the results from other microservice is overloading it. He asked me to shift the clear and show subscriber commands' processing to nodemgr, a relatively less loaded microservice. After the code migration, I worked on the fetch IP Pool info command. The command fetches information like the network IP address, number of free IPv4 and IPv6 addresses left etc. from nodemgr. Finally, all the implemented commands were tested. The show subscriber command was tested for different intermediate session setup stages(UDM, PCF, UPF). Tool used (Development tools - H/w, S/w) : Golang, Python, Java, Kubernetes, Helm Objectives of the project : The objective was to develop commands on a CLI which can get subscriber information from different microservices and give insights into the IP addresses allocation from each pool. Major Learning Outcomes : Golang, 5G Core Network Architecture and basics of Kubernetes, Helm, Jenkins etc. Details of Papers/patents : Brief Description of working environment, expectations from the company : The working enviroment in Cisco is good. I was given the freedom to explore different possible ways of solving a problem. Everyone was very kind and helpful. This gave me an opportunity to learn new technologies like Kubernetes, Jenkins in a better way. My project work involved working on the Cisco's 5G network products. This improved my knowledge and skills in the networking field. I got familiar with Cloud Native and DevOps methodology. Academic courses relevant to the project : Computer Networks, Network Programming	2018-19-sem2
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	Bangalore	2019-20-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd - Software Engineering ,	Entire design flow of ASIC design and verification. Learning Formal Verification tools such as System Verilog, DVE Synopsys, UVM. Testing methods. Developing the first level of testing check for an RTL developed by Cisco. Covering border cases, negative cases, and normal cases. Exhaustive testing and debugging. Tool used (Development tools - H/w, S/w) : System Verilog, DVE Synopsys, VNC Viewer, Objectives of the project : Develop module based, then class based and eventually UVM based testbench for a sample RTL. Develop assertions file to serve as the first level of protocol checking for a design of DDR Controller. Major Learning Outcomes : Learning how coding for hardware is different from normal software coding. How to do formal testing using UVM. Different constructs that apply only to hardware. How to do backtracking of bugs and different testing methods Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Analog Digital VLSI Design, Digital Design, VLSI Architecture	2019-20-sem2
Cisco Systems (India) Pvt. Ltd., Bangalore	Working at Cisco has been an amazing experience. Interning at a company which is a market leader in networking was a great learning expedition for me. I being a student of Electrical and Electronics was not much in coding and web development stuff. For me the main motive was to learn coding while working and that was the main reason I sought his company. With a thought in mind, "If not now, when?" My role name here was Software Engineer. As the name suggests I was the part of the engineering team among the many teams that are here are Cisco Systems, Inc. Under engineering section, I was allotted to the Core Software Group – Platform dependent team for Catalyst 6K switches of Cisco Systems, Inc. which are one the most sought after products of the company. When the work started in the month of February I was a little afraid as I didn't know coding at all and I was here at a company who is leading the world as far as networking and communications is concerned. But that fear was soon gone as the people here are very helpful. They were so good to be me, me being an intern that they used to leave what they were doing and help me out for 2-3 hours at a stretch to teach me a basic concept of programming. I was allotted a mentor, a guide and a manager to whom I had to report. This system helped me a lot as there was always my mentor to whom I could ask anything whenever I got stuck. He was someone who was available to me outside work also. The	2015-16-sem2

Company	Experience	Year
	best thing after the people here at Cisco Systems, Inc. is undoubtedly its work culture. With flexible work timings I could come at the office at my own leisure and need not be afraid. This also gave me the opportunity to stay back and work till night 8 pm and sometimes till 10 pm. The work-life balance is something which everyone here at Cisco Systems, Inc. appreciates. In between, once in a while, I went out to try my hand at basketball and volleyball. Even when the people here didn't know me (it is hard to know someone in a company which has 10000+ employees!) I was always welcomed. I worked on multiple small projects during my course of time here at Cisco Systems, Inc. During this endeavor I got a lot to learn not only from my mentor and manager but also excessive use of the internet. Yes, my friend, internet was the best guide to me in these five months. In January I did not know 'C' of coding. And today as I type this document I can claim that I am proficient in C and knowledgeable about php, css and html. I developed two web pages for my company which simplifies a complex process. I have written multiple codes which has helped reduce a six step process to a 4 step process. Finally, I would like to say that there is nothing that you can't learn. It will take time but if one is persistent enough anything can be learnt. I learned this here at Cisco Systems, Inc. A guy with no coding knowledge was able to do so much and contribute something substantial to the company. I would say that this journey has been truly wonderful and life changing.	

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd., Bangalore	PS 2 has been an excellent learning curve. I was lucky to have been selected by a good manager. The work was interesting and I learnt a lot during the course of work. I was in Security Business Group which deals with Network Security. The security products deal with a lot of bugs and errors. The aim of my project was to optimize problem solving (errors/bugs) by determining the appropriate personnel and assigning it to them. Whenever a system encounters a bug/ error, there is a possibility of a developer having worked on it before. To optimize problem solving and decrease redundancy, it is better to redirect the bug/ error to the associated developer. If the bug/ error is fresh, we need to register it on a catalogue for future referencing and then direct it to appropriate department. I dealt extensively with Data Mining. R and Rapid Miner were some of the tools used extensively. MS-Excel came in handy too. R is an easy to learn tool. Rapid Miner has excellent interface which makes Data Analytics look easy. I must say PS-II has made me an expert in Data Analysis and I can forward to build on it. Further, knowledge of various Network Security Protocols and Products places me in an excellent position to bolster my career in Networks. My project received a Cisco Inspire Award for the amazing growth in predictive capability of my project tool. Cisco has been an amazing ride and hope it continues further too. My manager has been an excellent support, ever inspiring and a perfect role model. PS-II has helped me understand the nuances of corporate world. If I had to sum up my PS-II at Cisco in one line, it would be: Cisco is BITS Pilani of corporate world.	2015-16-sem2
Cisco Systems (India) Pvt. Ltd., Bangalore	I have had a marvelous experience here at CISCO with good projects, regular training and consistent mentoring by my managers. I must thank the PS division for this, as at times, I have felt that I was excused for my shortcomings because I was from BITS Pilani University. There are many interns from other top colleges in India, who on many grounds were more prepared and industry ready than I was, with more certifications, training and overall understanding of the industry. However, I felt my takeaway was far richer than theirs; I was given better projects and treated with respect, which may not seem so important, but it gave me a very good feeling about going to office every day. I think as students of BITS, we often forget the privileges we receive, some of which were the evaluation components. Students from the other institute had to make frequent visits to their institutes	2015-16-sem2

Company	Experience	Year
	for various evaluative components, and owing to no such constraints, I could wholly focus on my deliverables, which increased my productivity. With unhindered focus on my projects and work thanks to the PS division, I had an overwhelmingly positive experience with the organization. Cisco is a global company, and with several cross-functional teams. It is a perfect blend of management and technical and thus gives several opportunities to learn various skillsets. Overall, I think this was a perfect addition to my educational arsenal, I now feel ready for the industry. Projects as mentioned earlier were same as which would be given to any regular employee in my Business Unit. I was trained for specific CISCO technologies and I am glad for it since it showed me the real life applications of many seemingly abstract concepts taught in the classroom. I am grateful to partake this internship opportunity and feel really lucky to be from BITS Pilani University; else I am sure I would not have such an opportunity. The Project was mainly focused on ensuring the cross-functional translation of deliverables across various teams. In big organizations, it becomes extremely difficult to track the list of requirement specifications as each deliverable goes from top-level requirement to bottom-level execution. For example, stakeholders may require a particular specification, which may be translated into a Business Review Document. These specifications then go to the Software team which make an appropriate Software Requirement Specifications document to ensure the stakeholders' expectations are met. This transition is often blurry, and the software team ends up delivering only a few of the requirements specified owing to various factors. Some of these requirements, which are not met, can lead to an incomplete delivery thereby sending the project in a second iteration. Such processes can be extremely costly as resources are wasted in each, repeated iteration. Thereby, a cross-functional team that ensures the right specifications are captured and delivered can save a lot of time, money and resources. Our job was to ensure the above process and this gave us a good understanding of each functional team. What are the skill sets that were required in implementing the project? How did you acquire the skill sets? Technical Skills: MS Projects/Excel/PowerPoint, Basic SQL query, Java/J2EE basic knowledge. Soft Skills: Communication Skills, Making decisions, Team-Working Skills, Leadership skills. I had several takeaways from this internship some of which are mentioned: Solid understanding of Project life	

Company	Experience	Year
	cycle, Working knowledge of popular industry level software tools like R, HADOOP, MS Projects, Understanding of Business terms and protocols. I was selected for the Cisco Global Mentorship program and mentored by top leaders from around the globe. Selected as the SPOC and Team Lead for all interns in my Business Unit.Received exemplary feedback for organizing some team-building events.	
Cisco Systems (India) Pvt. Ltd., Bangalore	My six month experience at Cisco has been like an unexpected journey. As the work in Cisco was described to be different from what my primary choice of courses in finance, I decided to choose this station for my PS for learning about different areas of business other than marketing, Finance and HR. I was made a part of GDC team, which primary takes care of providing support to other business units. Under the able guidance of my mentors and colleagues I learned basics of how to approach a business problem provided by our sales counterparts. They just gave us the problem and asked us to figure out the needed solution and provide a finalized solution by the deadline. Each project I worked on was a different working experience and my mentors, though very much senior to me in this field were open to take up my suggestion. Overall Cisco offered me the learning experience I was looking for in my PS along with an awesome working environment. Cisco as a company focuses on offering its employees a very flexible working environment with options of flexible working hours and work from home options. Working over here was fun along with work deadlines we had to adhere to.	2015-16-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd., Bangalore	I worked in Core Software Group – Switching Access Platform Team as a Software Engineer Intern. During the internship tenure of 5.5 months, I did multiple projects. I will explain in detail about each project. Sahakaar – This tool is used by the Cisco employees (both managers and engineers) to keep track of the work done like bugs they resolved, service requests they are handling, new features and enhancements etc. This tool pulls data from many Cisco tools and gives all the data in a single place so that the management becomes easier. This tool will help managers a lot to assess the performance of the engineers under them. Tech Stack Used: HTML, CSS, BOOTSTRAP, JQUERY, Java Script, PHP, LDAP etc. Product Life Cycle Management – This project is done as a part of ENG Hackathon which automates the network management. And this project won the first prize in the Hackathon and further process of applying for tech fund is going on. Discovery Protocol for the upcoming Switch: To Discover the newly connected device in the network for the newly developing Cisco Switch. For this project, I had to learn Cisco IOS Programming and my managers and mentors helped me a lot in learning this. IOT Protocol Bridge: A plugin was developed to convert MQTT packets to CoAP Packets and vice versa. This project helped me to learn about Internet of Things a lot. Regarding the organization culture and environment, I would recommend it as an option where there is sample amount of flexibility and work life being balanced. The entire Team has been very supportive in terms of guiding me towards accomplishing the task being assigned. They guided me well by personally explaining all the fundamentals & helped me wherever I got stuck. Apart from technical learning, I also got to interact with Director and senior managers who gave me career advice which will definitely be helpful in my long term career. This 5 and half months of PS at Cisco Systems has given me the much required smooth transition from college to industry. Coming down to conclude, I would recommend this PS for the students who wish to explore their carrier in the field of networking, testing and software development.	2015-16-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd., Bangalore	I worked in Core Software Group – Operation team as a Software Engineer Intern. During the internship tenure of 5.5 months, my work included creating a new tool (SLIM) for lab resource management and developing a frontend for the same. This tool is developed to manage equipment resources in Cisco Engineering Labs, monitor their utilization and generate appropriate reports for necessary actions. This project aims at finding dynamic inventory of the lab and finding the utilization measurements for Lab Gears. The dynamic inventory is used for Data Driven Lab Analytics. It can be extended to adding on more features depending on type of data analytics. A frontend for interactive user experience is provided through customizable user profiles and dashboards for data analysis, report generations and extrapolation. I have learnt a lot throughout this project. Interconnecting of devices, configuration, automation are a few to list. Getting exposure to Cisco Lab was one of the greatest opportunity. This project helped me to learn networking, software development and also testing. Backend implementation required working with python, mongoDB and pymongo libraries. Frontend implementation uses HTML5, CSS, bootstrap and JavaScript. Regarding the organization culture and environment, I would recommend it as an option where there is sample amount of flexibility and work life being balanced. The entire Team has been very supportive in terms of guiding me towards accomplishing the task being assigned. They guided me well by personally explaining all the fundamentals & helped me wherever I got stuck. Apart from technical learning, I also got to interact with Director and senior managers who gave me career advice which will definitely be helpful in my long term career. This 5 and half months of PS at Cisco Systems has given me the much required smooth transition from college to industry. Coming down to conclude, I would recommend this PS for the students who wish to explore their carrier in the field of networking, testing and software development.	2015-16-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd., Bangalore	I worked in Core Software Group – Security team as a Software Engineer Intern. During the internship tenure of 5.5 months, my work included adding a new functionality to Cisco product, developing a web interface and server base to interact with that product and some bug fixing. GETVPN is a cisco proprietary VPN, it provides a secure communication between a group of users using a symmetric key encryption. It used IPv4 version of IP address to communicate among group members and key servers and also among Key servers. Now with reducing number of IPv4 address there has been a transition to use of IPv6 address. My work was to make Key servers able to handle communication both on IPv4 and Ipv6. To complete this part I have to go through details of GETVPN and IPv6 version of IP address. My next project was to develop a web interface and server side to interact with GETVPN using a Graphical user interface thus avoiding use of command line interface. It's implementation required working with Java Servlet, html and JavaScript. While working on these tasks, I got help from my team. They guided me well by personally explaining all the product fundamentals & helped me wherever I got stuck. Apart from technical learning, I also got to interact with Director and senior managers who gave me career advice which will definitely be helpful in my long term career. This 5 and half months of PS at Cisco Systems has given me the much required smooth transition from college to industry.	2015-16-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd., Bangalore	I worked in Prime Infrastructure – Inventory team as a Software Engineer Intern. During the internship tenure of 5.5 months, I worked to develop standalone utilities which are currently being used by developers and Prime Infrastructure customers. The utilities developed include utility for identification of all post collection hooks which run after a device is added to Prime Infrastructure, utility for identification of object hierarchy involved in delete device operation and a utility to find out all the commands sent to a device. These utilities are based on Java regex, Java reflection and Spring Aspect Oriented Programming frameworks. Also, I got to work on a Proof of Concept in Distributed Caching using ehcache, terracotta and Redis. While working on these tasks, I got help from my mentor who happened to be a BITS Pilani graduate. He guided me well by personally explaining all the product fundamentals & helped me in choosing the frameworks for completing the tasks. Apart from technical learning, I also got to interact with Director and senior managers who gave me career advice which will definitely be helpful in my long term career. During my internship, I got selected for Cisco Global Mentorship Program & got the opportunity to be mentored by a Technical Leader from San Jose. She helped me in understanding how to go ahead to become a Subject Matter Expert in Cisco through getting involved in projects and interacting with existing Cisco's think tank. This 5 and half months of PS at Cisco Systems has given me the much required smooth transition from college to industry.	2015-16-sem2
Cisco Systems (India) Pvt. Ltd., Bangalore	In many ways, an internship is like an independent study. Because the experience takes place outside of the classroom, I as a student have the opportunity to take charge of my learning by developing my own goals and assessing my progress along the way. I put significant time and energy into this internship and find that they have a more meaningful and beneficial experience. My internship at CISCO has been a wonderful experience and I would recommend doing an internship with CISCO to anyone interested in getting some real world experience. I was able to fulfill all the objectives that one can think of during an internship: academic, professional as well as personal, which is truly a rewarding experience. The internship allowed me to further explore and implement the concepts I've learned in my classroom, thus fulfilling my Academic learning objectives. It helped me to develop as a professional and developing a better sense of	2015-16-sem2

Company	Experience	Year
	the particular field in which I was interning which helped me in completing my Professional learning objectives.It helped me to develop skills for personal growth and enrichment and thus fulfilling my Personal Learning objectivesfrom this internship. During my internship I worked on three projects namely: Prototype for Web Based Version of PET, TCO/ROI TOOL for collaboration team, Benchmarking for Presales Enablement Tool. I was required to have skillsets like MS Excel Advanced Knowledge, knowhow of design thinking, Crisp DM Methodology, Data Mining, Data Analytics, Data Science, Visual Basic, .NET, financial proficiency etc. Some of these I had already acquired during my MBA and some I acquired while working in CISCO. I learned about Design Thinking, CRISP DM Methodology, and the R Statistical tool while working on the above mentioned projects. My team members continuously helped me in acquiring the skills required for project completion. Surviving in the working world involves more than just book knowledge and an intimate understanding of word processors. Lessons in life also involve social skills, including teamwork, conversing with co-workers, and knowing when to stay quiet and when to speak up. This Internship gave me a head start in learning day-to-day social skills on the job like: Innovation: The difficulties and roadblocks faced while innovating and how to overcome these. New Process Implementation:Change is difficult and cumbersome to implement; a well-planned, structured process is required to implement anything new. Networking:Learning about people, how to interact with them and to be confident while asking for help. Academics in Real Life: How academic knowledge is implemented in real life scenario and how our academics are important in building our confidence and knowledge base. My time at CISCO definitely follows the motto of "work hard, play hard". There was time which was very stressful as I was working on two projects at the same time, but there were so many opportunities to relax and have fun like Women's Day Celebration, Motivational speakers at various events, Jamboree Event, and Fun Fiesta recently organized by our Advanced Services Director, Ms. Lavanya. These fun and relaxing opportunities had made my internship experience even better. During this internship, everyone involved in the team accepted me as an equal during all phases of the project and valued my opinion. This acceptance allowed me to explore my potential and incorporate new learnings for the betterment of my career.	

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd., Bangalore	To be part of #1 IT Company of the world and one which owns end-to-end of its supply chain is an experience of lifetime. My past 5 months has been a roller-coaster exploring the huge vertical of Cisco Advanced Service Business Unit. The word on the street is innovation and everyone wants to see that happen here in Cisco. Right from start, We were put into top gear on innovation front and asked to see the AS tools and processes differently. The first two months were into a passive shadowing of the team's workings and how they do business especially the SVT team under Viva. Cisco had on offer three roles for BITS PS-2 interns- Business Ops, Business Development & Analytics Roles. I was put into the pre-sales work which would mean pricing, scoping, preparing an official quote for the Sales team in the US. The task upfront on this domain was to re-imagine Pre- sales enablement tool and make the BDM's life easier. As days passed by, benchmarking came our way where we had to benchmark past booked Cisco deals to help predict the level of effort and pricing for future incoming deals. Achieving this would mean massive data extraction and inferring association from each of these transactions. As I am writing this- I got re-assigned to a consulting project in Analytics for a client to analyze their network syslog messages and help predict the router break-downs. Doing that would mean mining association rules into millions of syslog messages and creating a model which would predict the cause of the failure. Today's business decisions are made on information and Cisco helped me understand how raw data can be transformed into information for consulting and sales decisions. Skill set required- mathematical models on data mining, software skills- R , Python , vba. My takeaway from the PS2 experience how the companies are changing in this age of data mining. Data interpretation is word on the street and my achievement is in adapting myself from my business background to a technical one where I had nothing as capital except for my learning appetite.	2015-16-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd., Bangalore	Being a Finance student, I opted Cisco for gaining the cross-functional experience & sense of business in an IT sector before joining Financial Services. The 5 months period of PS-2 was a period of great learning. I had been lucky to be part of two teams and to work under two managers. This has helped me not only to broaden my technical skills, but also inter-personal skills. The exposure at Cisco was great. One can freely meet Directors & Heads of various business units & gain career insights from them. The project I was working on Data Analytics. It involved analyzing whether GDC, business org of Cisco, lead to higher margins. The analysis was done & the findings were presented to Susan, Director of Strategy & Operations. Initially, it was not easy to be able to read numbers, make business sense out of it and present it as a business case. It requires good knowledge of business and years of experience. Luckily, I have had great peers who helped me in this project. The skills required were: Business acumen, Good knowledge of Statistics, MS Excel, R, Presentation skills. I learnt these skills from internet, under the guidance of my team mate. I learnt to apply the Statistics learned in college to present a business case. The findings of my project were presented to Susan, Director of Strategy & Operations. Also, I had a chance to represent Cisco at 5C's marathon in 5km category. This was really a motivator for an intern!	2015-16-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd., Bangalore	The aim of my project was to upgrade the control plane stack of the GETVPN (Group Encrypted Transport Virtual Private Network) to Dual stack (IPv4/v6). This requires enhancing the communication between key servers and group members to operate on both IPv4 as well as IPv6 protocol. Successful implementation of the project required thorough understanding of data structures and algorithms, and a complete grasp over C language. The entire infrastructural code of GETVPN network is developed in C language. Using the VMWare resources and working on Linux environment required complete conceptual understanding of operating systems and working knowledge of shell commands. The project also required underlying knowledge of data communication and networks, Routing protocols, network security and cryptography. Conceptual understanding of timers and packet formation and processing was essential to the development of the project. The generic skill set of data structures and algorithms, C language, operating systems and networks was acquired through courses I had completed in college as part of my curriculum. The application specific knowledge pertaining to the entire GETVPN network was provided by the organization at the beginning of the project in the form of documentation and recorded meetings. PS-II provided the much needed exposure and experience required to build an escalating head start for one's professional career. It works as a catalyst to make the transition from college to corporate world smooth and obstacle free. The PS experience gives a hands on exposure to demands and expectations of the corporate world. It helps you apply the knowledge gained at college at the industrial level and understand the gap between academic and professional world. My PS-II experience helped me gain a lot in terms of technical expertise, leadership skills, team building abilities, presentation and communication skills, punctuality, persistence, professional ethics, and a better personality which can face the real world and solve the challenges of the society.	2015-16-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd., Bangalore	Cisco systems needs no introduction to any who calls himself a software engineer. It is one of the giants in tech and drives the innovation in the networking industry. Cisco's market cap is bigger than all of its competitor's combined. Cisco's bread and butter is switching and routing solutions but it has its fingers in all the cookie jars there are. My project, 'In-Band OAM for IPv6 (IOAM6)', is a tech-fund project, (a project proposed by a cisco employee that is funded by the company) that seeks to verify that a data packet has visited all the nodes that are there in a service chain. Earlier service function nodes were simply cabled together and there was no way for a packet to bypass a node. However with the advent of Network Function Virtualization, there are no cables and hence there is a possibility packet re-routing by a malicious user that bypasses a service node. Our project mitigates that. The project has been opensourced. Learning experience in Cisco has been absolutely great. You are surrounded by people with many years of experience and wisdom under their belt who readily mentor, inspire and guide you. There is no undue pressure from the management. I am treated no differently than a regular employee and am given work of significant importance to the project. Knowledge of networking systems is paramount for the work at Cisco. It is advisable for student to go through basic networking concepts before joining. Working environment is also top notch. Cisco's Bangalore campus is the second largest Cisco campus there is after Cisco headquarters at San Jose, USA. You have really awesome spaces with TT tables, pool tables, air hockey, foosball, arcades, massage chairs, gym, indoor gardens, even an indoor theater in the premises. Overall PS-2 has been a very engaging and fruitful experience. It truly gives students a clear picture of the work at industry. It is extremely valuable and one of the best experiences of college life. I would highly recommend students to opt for Cisco systems as their choice for PS-2.	2015-16-sem2
Cisco Systems (India) Pvt. Ltd., Bangalore	PS 2 has been a good learning curve. I was lucky to have a good mentor to help me. The work was good and I learnt new stuff during the course of work. I was in Optical Group which deals with deployment of optical networks. My project was to develop a Site View Layout of the different optical cards being used in the building of optical networks and showing the various interconnections between them. I got to learn about different optical components and also code in Java. PS-II has helped me understand the nuances of corporate world.	2015-16-sem2

Company	Experience	Year
Cisco Systems (India) Pvt. Ltd., Bangalore	I have been working with Fretta team, which is coming under CSG(Core Software Group) during my internship. Our aim is to automate workflow/feature verification from traces or logs using supervised learning and classification. When developers code up a feature, there is a set of logs associated with that feature. The set of logs here is like a fingerprint of how the feature is behaving- was it successful or failure and if so why and where. Today debugging is done manually and it consumes lot of bandwidth and also time and complexity grows exponentially when multiple components get involved in the picture. We build up a framework which can learn pattern provided by subject matter expert, which is the supervised learning and internally construct a decision tree and produces a result. The other interesting which we are doing now is automation of router debugging by using Yang data model. YANG is a data modelling language used by Network Configuration Protocol (NETCONF) Automation using yang data model is a research topic and we are very much excited to work on this. The basic skill set required for this project is good knowledge of a programming language(we used python), json, html language, Linux commands, web server, machine learning algorithms, data analytics and basic knowledge of networks. The way in which I acquired my skill is with the help of google and interaction with my mentor and teammates. Since I was from electronics background initially I was unaware about the machine learning and data analytics by doing this project got opportunity to learn about this interesting topics and able build up a framework using python in this short period. Helps some teams in debugging there logs using our framework and log analysis tools such as Graylog and ELK. During this internship period we got opportunity to interact with network architects in Dublin and San Jose. Cisco gave us full access to Fretta router in San Jose and now we are working on it. Took part in SPNG Hackathon in our department and got inspire 3 award from our manager for special mention about our project. Cisco helps me to have transition from my student's life to professional life which every fresher desire. The work culture in cisco is really good and Cisco is treating there interns same as their employees.	2015-16-sem2
Cloudcherry Analytics Pvt Ltd , Bangalore	Student	2018-19-sem2

Company	Experience	Year
Cloudcherry Analytics Pvt Ltd , Bangalore	Custom Excel report generation feature for the product, Web scraping for curating suitable datasets and Product implementation. Tool used (Development tools - H/w, S/w) : Visual Studio, Spyder Python, Excel Objectives of the project : Unddderstanding the working of the Product and to help implement smoothly/improve. Major Learning Outcomes : A thorough understanding of Customer Experience management domain. The working & implementation of a Product. Exposure to software development process, writing better code and Work place behavior. Details of Papers/patents : None Brief Description of working environment, expectations from the company : The Folks are pretty friendly if you take a step and get to interact with them early on. The office hours are flexible and has the two weekend days off. It being a startup, you will be expected to learn everything on your own. The more enthusiasm and better learning curve you show, the better it would be or you. Since they are thinking of expansion at the moment, make sure you work as if you are looking forward to join them. They don't really encourage I-am-not-looking-for-a-PPO interns. Hierarchy here has smudged boundaries. So, one has to be conscious about whom he/she is talking to and make use of the opportunity. The VPs & managers interact on regular basis and might even give you tasks if you perform well. Free snacks round the clock and probably free lunch too. Academic courses relevant to the project : OOP, Software Engineering	2018-19-sem2

Company	Experience	Year
Cloudcherry Analytics Pvt Ltd , Bangalore	The aim of the first project, "Quantify Open-Text User Comments using various kinds of Word Embedding Techniques" is to investigate existing word embedding techniques that can allow us to quantify, the otherwise unstructured but information rich texts. These texts are primarily obtained through UX surveys filled by customers/members regarding a company's service or product. The aim of the second project, "Intelligent Insights Mining (extended)" is to help the users of the CloudCherry Platform gain Actionable Insights on their key metrics with regards to their customer/member base. These insights will be mined and surfaced to the user automatically, without the user having to manually track various parameters through numerous widgets, which is the more traditional and effort intensive approach. This is an extension to my previous project, "Intelligent Insights Mining" done here last semester. Tool used (Development tools - H/w, S/w) : Visual Studio, Jupyter Notebook Objectives of the project : Understand significance testing and Word Embedding Techniques Major Learning Outcomes : Introduction to Applied Statistics and Natural Language Processing Details of Papers/patents : Not Applicable Brief Description of working environment, expectations from the company : Being start-up you will be given plenty of work and will get to grow as a coder. You will have a mentor guiding you through your projects. Working hours are flexible and you can take breaks from work to play TT/Foosball, relax etc. Just finish the work in the stipulated time and you'll be sorted. Also you will be provided with lunch. People here are just great. Really understanding and helpful. Academic courses relevant to the project : Probability and Statistics, OOP, Machine Learning	2018-19-sem2
Cloudcherry Analytics Pvt Ltd , Bangalore	Brief write-up on PS-II station : CloudCherry- It is taken over by CISCO now so from now on the requirements might come via CISCO. Till now their need was more around Java, .NET, AI/ML, Python. Groww- Java, Spring MVCframework. Sapient: Python, Java, AI/ML	2019-20-sem2

Company	Experience	Year
Cloudcherry Analytics Pvt Ltd , Bangalore	As part of the product team, building and rendering views/charts for data science algorithms. Visualization built for N-Gram Analysis and Regression (with Confidence Interval), ANOVA (Analysis of Variance), T-Test. Building web apps using Angular. Building full stack web apps using Flask(Python) and Angular 8. Tool used (Development tools - H/w, S/w) : Angular 8 Objectives of the project : Developing widgets for CloudCherry product Major Learning Outcomes : Front-end webdevelopment (Angular), Backend microframework(Flask) Details of Papers/patents : Brief Description of working environment, expectations from the company : Excellent working environment. Everyone from the mentor you are assigned, to the manager you report to are super helpful and make you feel very comfortable at work place. Academic courses relevant to the project : OOPS	2019-20-sem2
Cogoport - Non Tech , Mumbai	Student	2019-20-sem2
Cogoport - Non Tech , Mumbai	I worked with Platform team, 1. getting shipping schedules on various shipping line website and upload it to cogoport portal. 2. Seaintel data accuracy checking. 3. Acquiring Data of various companies, along with their IEC and cleaning files to be made ready to upload for data enrichment process. 4. Write ad-hoc queries in mongodb to extract data. 5. Collecting insights for various import export commodities. Tool used (Development tools - H/w, S/w) : Ms Excel, Jupyter notebook, Canva Objectives of the project : To maximize revenue of cogoport by acquiring maximum shipping schedules and rates to be displayed on cogoport website. Major Learning Outcomes : Python Coding, aggregate IECs for uploading at data enrichment Details of Papers/patents : - Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Data structures and algorithms.	2019-20-sem2

Company	Experience	Year
Cogoport - Non Tech , Mumbai	PART OF THE SUPPLY TEAM WHICH DEALT MAINLY WITH LANDSIDE EXPANSION OF COGOPORT. THIS INCLUDED INCORPORATING TRUCKING LOGISTICS FEATURE ONTO THE PLATFORM. DEALTH WITH STRATEGIC SERVICE PARTNERS AND FREIGHTF FORWARDERS AND TOOK CARE OF SHIPMENT EXECUTION Tool used (Development tools - H/w, S/w) : NONE Objectives of the project : TO ONBOARD TRUCKING PARTNERS AND TAKE CARE OF SHIPMENT EXECUTION BEFORE MIGRATION ONTO THE NEW VERSION OF COGOPORT Major Learning Outcomes : GOT A DETAILED UNDERSTANDING OF THE OPERATION PROCESSES INVOLVED WITH CARRYING OUT A SHIPMENT AS WELL AS THE SKILLS REQUIRED TO DEAL WITH SUPPLIERS Details of Papers/patents : - Brief Description of working environment, expectations from the company : WORKING ENVIRONMENT WAS GOOD TO BE IN. Academic courses relevant to the project : SUPPLY CHAIN MANAGEMENT	2019-20-sem2
Cogoport - Non Tech , Mumbai	Was a part of the marketing team at Cogoport. Handled various campaigns in the domain of SEO, Email Marketing, Advertisements, PR, Internal communications etc. Tool used (Development tools - H/w, S/w) : Moz, KeywordResearch, Autopilot, SQL, Excel, Mailchimp Objectives of the project : To improve the brand awareness of Cogoport Major Learning Outcomes : Got to know a lot about how marketing in an organization takes places. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Market Research, Business Communication	2019-20-sem2
Cogoport - Non Tech , Mumbai	At Cogoport, I was working as a Demand Consultant. My role included contacting various exporters and importers based in Mumbai, setting up a meeting with them and finally convincing them to come over to Cogoport Online Platform for carrying out their export/import in the meeting.Once they agree I had to look after their shipments and guide them in the paperwork required henceforth. Tool used (Development tools - H/w, S/w) : CRM,Excel Objectives of the project : To identify market sectors and segments which had high demand in that period of time. Major Learning Outcomes : Complete working of foreign trade , development of soft skills Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : NA	2019-20-sem2

Company	Experience	Year
Cogoport - Non Tech , Mumbai	Brief write-up on PS-II station : Essential prerequisite courses required before working on the project OOP, Operating Systems, Software development basics, Computer Networks Ruby on rails, react, PostgreSQL DBMS, OOP,OS Software Development for portable devices	2019-20-sem2
Credit Suisse - Credit Analytics , Mumbai		2018-19-sem2
Credit Suisse - Credit Analytics , Mumbai	My team was GM, Algos & IBCM under Model Risk Management. We validated and reviewed the models in the above-mentioned fields, with respect to their theoretical soundness, ongoing governance, monitoring, compensating controls, risk tiers etc. I particularly worked in the IBCM and Global Markets models. Tool used (Development tools - H/w, S/w) : R, Excel and VBA, Thompson Reuters Objectives of the project : Assessing model risk exposures of the firm Major Learning Outcomes : Model reviews and Validations process learnt Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment in Credit Suisse overall has been really nice and amicable. Everyone is very friendly. You are expected to complete the work you are allotted, on time; either by coming early and going early or by coming late and staying till late. Each colleague would be willing to go out of the way and help you if you are stuck with something. Academic courses relevant to the project : FRAM, FinMan, SAPM, DRM	2018-19-sem2
Credit Suisse - Credit Analytics , Mumbai		2019-20-sem2

Company	Experience	Year
Credit Suisse - Credit Analytics , Mumbai	I was a part of the Firm Wide Stress Testing team which is responsible for developing and enhancing current stress testing framework and methodology that complies with model governance framework for Investment Banking and Private Banking portfolios. The team analyzes the overall counterparty credit risk / exposure of the bank for various scenarios for CCAR, FINMA, PRA and reports US, Swiss and UK regulators. I worked on the stressed Probability of Default (PD) and stressed Loss Given Default (LGD) Models used in calculating the expected losses for the bank in stressed economic periods. Tool used (Development tools - H/w, S/w) : RStudio, Excel with VBA Objectives of the project : irm Wide Stress Testing using Stressed Probability of Default Model and Loss Given Default (LGD) Model Major Learning Outcomes : Nuances of statistical modeling, model testing, credit data analytics Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment in Credit Suisse overall has been really nice and amicable. Everyone is very friendly. You are expected to complete the work you are allotted, on time; either by coming early and going early or by coming late and staying till late. Each colleague would be willing to go out of the way and help you if you are stuck with something. Academic courses relevant to the project : Prob stats, Mathematical and statistical methods, Econometrics, Advanced Econometrics	2019-20-sem2
Credit Suisse - Equity Research , Mumbai		2019-20-sem2

Company	Experience	Year
Credit Suisse - Equity Research , Mumbai	Major internship project was MSCI India Index Additions and deletions which is major part of market liquidity. Some other really good projects I worked on are Mutual Funds and ETFs data tracking which I will be covering in reports further. Two small VBA Projects to automate few excel tasks. And some small tasks to observe various economic aspects and how they affect stock market. Tool used (Development tools - H/w, S/w) : Ms Excel, VBA, Bloomberg Objectives of the project : To understand and predict the movement of stocks with various incidents happening in the market. To be ahead of the curve. Major Learning Outcomes : VBA, Bloomberg software, working environment of a trading floor, how to think in direction to get benefit from different situations. Details of Papers/patents : Brief Description of working environment, expectations from the company : Just Wow! Credit suisse is really a great to firm to work. I was lucky enough to get the exposure of real time trading and how IPO, QIP or various things really process. People are really nice, can approach anyone for even small things. Academic courses relevant to the project : DRM, SAPM	2019-20-sem2
Credit Suisse - Equity Research , Mumbai	Analysis and investor presentation preparation of companies which have been selected according to their potential growth. The first step involves collection of data. This is done via the help of the Draft Red Herring Proposal (DRHP) and the annual reports. The three financial statements which are the Balance Sheet, the Profit and Loss statement and the Statement of Cash Flows are collected from these reports. From there, they are meticulously recorded in an excel sheet. The next step involves building a financial model. By linking the various accounts in the aforementioned financial statements which are on separate excel sheets, we create a model which keeps the Balance Sheet properly balanced regardless of any change of accounts which may take place in any of the financial statements. Tool used (Development tools - H/w, S/w) : Microsoft Excel, PowerPoint Objectives of the project : To develop financial reports regarding companies. Major Learning Outcomes : 1) Linking financial statements together 2) Understanding the complexities and nuances in financial analysis 3) Building and utilizing financial models for analysis Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Fundamentals of Finance, Financial Management etc.	2019-20-sem2

Company	Experience	Year
Credit Suisse - Global Market Risk Management , Mumbai		2019-20-sem2
Credit Suisse - Global Market Risk Management , Mumbai	Automated the steps in the model involving machine learning and statistics to chose a final model to project VaR/SVaR forward nine quarters. This is done due to regulatory purposes to forecast amount of capital required for the company to keep aside and do well even during stress periods. Tool used (Development tools - H/w, S/w) : Macros, VBA, Python, R, Excel Objectives of the project : To automate the steps involved in running a model to project VaR/SVaR Major Learning Outcomes : Learned about finance in real life and how corporate banks work. Improved upon my coding skills and implementation of my learnings in practical life. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : DRM, FRAM, FM, FOFA	2019-20-sem2
Credit Suisse - Global Markets Controls COO , Mumbai		2018-19-sem2

Company	Experience	Year
Credit Suisse - Global Markets Controls COO , Mumbai	Was allotted the Supervision and Oversight team. Work here mostly includes managing daily operations as per BAU(Business As Usual) tasks. Working witb large chunks of data is needed to work properly amd efficiently. Tasks range from drafting SLAs, to reporting, and investigating e-learning, client-facing trips, CnCs and other tasks which pose compliance risks. A lot of the tasks are ad-hoc based, so there is no particular frequency according to which they are to be performed. Very few projects, that too mostly long duration ones concerning entire system revamps, so not really meant for interns. Was allotted one project to check the impact on trader compliance due to localized FO calendars. Moderately heavy, due to the large amount of data that was to be analysed. Tool used (Development tools - H/w, S/w) : Excel, Word, Proprietary Internet Applications Objectives of the project : To measure the impact of localized FO calendars on Trader Compliance Rates Major Learning Outcomes : Working with large datasets; Data Sourcing; Merging Datasets; Advanced Excel Functions Details of Papers/patents : None Brief Description of working environment, expectations from the company : Working environment is very good. Necessary IT support is available on any working day through the internet and desk phone. Floor had a Break Room/Cafe and a TT table. And most importantly, the team members were extremely supportive - everyone always had time to address any doubts, and were always there to help whenever needed. People were extremely friendly, and the whole team would make sure to stay updated on the work and progress of the interns, so as to prevent them from getting into any tight spots. The BITS alumni in the team were also very pleasant people, and being direct seniors, were more akin to friends than colleagues. Even the higher-ups were also very easily approachable, as everyone was always happy to help. All in all, could not have asked for a better workplace. Academic courses relevant to the project : BAV, FM, Operations Management	2018-19-sem2
Credit Suisse - Information Technology , Pune		2018-19-sem2

Company	Experience	Year
Credit Suisse - Information Technology , Pune	Tool used (Development tools - H/w, S/w) : Python , Oracle PL/SQL , IBM Netezza , Unix Objectives of the project : Automation of Liquidity indicator and last market mapping tables for Fee calculation . Also linking client and street side trade records to calculate fees . Major Learning Outcomes : Business Logic , Workflow of daily ETL process, Stitching ,Scorecard . Understanding nuances of Trade , Market and reference data Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Programming , DBMS	2018-19-sem2
Credit Suisse - Information Technology , Pune	Development of a AI chatbot capable of Natural Language Understanding Tool used (Development tools - H/w, S/w) : Python, Js, Objectives of the project : Automate bank processes Major Learning Outcomes : Experience in agile methodology and machine learning methods Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Machine Learning	2018-19-sem2
Credit Suisse - Information Technology , Pune	I was introduced to Fund Transfer Pricing, which is an existing project in the Group Finance IT department of CS, Bangalore. My work was to develop scripts which will help users load data and hence calculate transfer pricing one division must charge the other division. Tool used (Development tools - H/w, S/w) : IBM Cognos TM1 - This is an enterprise planning software, uses Turbo-integrator to develop scripts and has its own front end and back end tools. Objectives of the project : Help existing team in their day to day development. Major Learning Outcomes : Agile Methodology, Need of FTP system in a bank, development in IBM Cognos TM1 Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Basic Programming	2018-19-sem2
Credit Suisse - International Wealth Management , Mumbai		2018-19-sem2

Company	Experience	Year
Credit Suisse - International Wealth Management , Mumbai	I am working with the Investment Solutions and Products team, on the Private Banking Side which cater to HNIs and UHNIs. Analysts specialise in different asset classes, and as an intern I worked on both short and long term projects. Short term projects included building simple models to verify/confirm the views taken by the house. This helped me gather knowledge about all asset classes including, but not restricted to, equities, hedge funds, commodities, fixed income, Forex, and real estate. My long term project included the preparation of a model to show a quick snapshot to any analyst of how different asset classes perform during various regimes of a business cycle. These projects have helped me to excel at the use of different tools used for financial analysis and more importantly gather insights about the industry and the markets. Tool used (Development tools - H/w, S/w) : Microsoft Excel, Microsoft PowerPoint Objectives of the project : Preparation of a model to show a quick snapshot to any analyst of how different asset classes perform during various regimes of a business cycle. Major Learning Outcomes : Excellence at understanding and using tools for financial analysis. Insightful learning about the industry and financial markets. Details of Papers/patents : Brief Description of working environment, expectations from the company : I experienced a work environment encourageous of learning and holistic development enabling me to assimilate into the corporate work culture. Academic courses relevant to the project : Fundamentals of Finance and Accounting, Derivatives and Risk Management, Security and Portfolio Management, Financial Management, Business Analysis and Valuation.	2018-19-sem2
Credit Suisse - Prime Services , Mumbai		2018-19-sem2

Company	Experience	Year
Credit Suisse - Prime Services , Mumbai	I was part of the Delta One Index Trading team. The main responsibilities were hedging the clients' positions on indices which involved understanding dividends and various corporate actions in detail and how they would affect our inventory. Also, I had the opportunity to create and analyse certain event-driven trading strategies, the event being index rebalancing. Strategies were developed by forecasting index rebalances well in advance. Tool used (Development tools - H/w, S/w) : MS Excel, MS Access, VBA Objectives of the project : Along with the daily activities, a particular project that I had performed was dividend forecasting. The objective was to forecast dividends to be given by the S&P 500 companies in the next one year, so as to determine fair value of futures, which the traders can quote in the market, and generate profits. Major Learning Outcomes : 1. Basics of working and treatment of an index. 2. Different index trading strategies. 3. Methodologies of various indices and strategies based on treatment of corporate actions. 4. Analysis of dividends. Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment was very friendly, quite informal and motivating, which for me was one of the best parts about this internship. Each member of the team was an amazing mentor as well as a friend. The company expects you to climb the initially steep learning curve quickly and then to be able to suggest and carry out tasks independently. Academic courses relevant to the project : Business Analysis and Valuation, Financial Engineering	2018-19-sem2
Credit Suisse - Prime Services , Mumbai		2019-20-sem2
Credit Suisse - Prime Services , Mumbai	Was a part of Client and Business Analytics team. Work included making daily and weekly reports about the various aspects of the business the clients do with Credit Suisse. The entire analysis was in a broader perspective like revenues, balances and few other metrics. Tool used (Development tools - H/w, S/w) : Excel, VBA and Tableau Objectives of the project : Major Learning Outcomes : Understanding about Prime Brokerage business and how revenues are generated for Credit Suisse. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : DRM	2019-20-sem2

Company	Experience	Year
Credit Suisse - Risk & Finance Data Analytics, Reporting ,	Mumbai	2018-19-sem2
Credit Suisse - Risk & Finance Data Analytics, Reporting ,	I, as a part of the Market Liquidity Risk Management department in Credit Suisse, have been assigned to investigate the VaR moves and Market Value breaches of Government/Agency Guaranteed Securitized Products and provide comments on why the moves have occurred. These comments would be published to the broader audience i.e. trading desks who then make new trades to balance out the risks generated and maintain the capital required for Risk Weighted assets and make profits from the trades. The investigation involves breaking down the VaR calculations into risk types and time series data to evaluate the driver for the move in VaR. The breakdowns have to be cross checked with the market value moves with different products. This requires a strong knowledge base in Securitized products and how the risks are calculated for each product. This is the Business as usual activity assigned to me to be performed daily. Tool used (Development tools - H/w, S/w) : Microsoft Excel, SQL Programming, VBA Programming, JAVA Development Objectives of the project : I worked with the New York team to build a Quarterly Valuation report for a Cluster of the Securitized Products and automated the process of report generation using SQL, VBA programming. Created Macros for the investigation process so that the repetitive process of data aggregation can be eliminated. Major Learning Outcomes : Learnt the workings of an trading arm of Investment Banks. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Minor in Finance	2018-19-sem2
Credit Suisse - Risk & Finance Data Analytics, Reporting ,	Mumbai	2019-20-sem2

Company	Experience	Year
Credit Suisse - Risk & Finance Data Analytics, Reporting ,	My work revolved around stress testing. It is a computer-simulated technique to analyze how banks and investment portfolios fare in drastic economic scenarios. It helps gauge investment risk and the adequacy of assets, as well as to help evaluate internal processes and controls. We were required to determine drivers of the move and validate them so that the hedging strategies can be determined accordingly. Tool used (Development tools - H/w, S/w) : Qlik Sense, Excel, VBA, SQL Objectives of the project : 1. To monitor trading desk limits 2. To perform impact analysis on bank's assets. 3. To create a dashboard on Qlik Sense for quick and in-depth risk monitoring Major Learning Outcomes : Credit and Market Risk Management, Qlik sense Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Derivatives and Risk Management, Financial Engineering	2019-20-sem2
Credit Suisse - Risk & Finance Data Analytics, Reporting ,	Pune	2019-20-sem2
Credit Suisse - Risk & Finance Data Analytics, Reporting ,	I was a part of the RFDAR(Risk and Finance Data Analytics and Reporting) department of the Chief Risk Office in Pune. I was a part of the stress testing team in RFDAR, our primary work was to measure and manage credit risk of CS against various counterparties for pre-defined adverse scenarios. This was done by applying shocks defined for these scenarios to the baseline mark to market values and assessing the movements for limit breaches in exposure limits. The stressed mark to market values are adjusted for regulatory reporting. Tool used (Development tools - H/w, S/w) : Excel , SQL Objectives of the project : Credit risk analysis of products for regulatory reporting Major Learning Outcomes : Conceptual understanding of valuation of financial instruments, valuation of collateral, stress testing methodologies. Details of Papers/patents : Brief Description of working environment, expectations from the company : Excellent working environment with emphasis on teamwork and open dialogue. Expect risk measurement projects for various financial products. Academic courses relevant to the project : Derivatives and Risk Management, Financial Management, Security Analysis and Portfolio Management	2019-20-sem2
Credit Suisse- Finance Change , Pune	Student	2019-20-sem2

Company	Experience	Year
Credit Suisse- Finance Change , Pune	Reporting related UATs performed , basically it's finding failures and get it fixed with IT team Tool used (Development tools - H/w, S/w) : Axiom , Oracle business intelligence , excel , jupyter , spyder Objectives of the project : Pillar 3 report Major Learning Outcomes : BASEL reporting Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : SAPM , fundafin and DRM	2019-20-sem2
Credit Suisse- Investment Banking and Capital Markets ,	Mumbai	2018-19-sem2
Credit Suisse- Investment Banking and Capital Markets ,	Assisting in pitch books, memos, company profiles, identifying investors Tool used (Development tools - H/w, S/w) : Excel, PPT Objectives of the project : Industry agnostic work. No specific project Major Learning Outcomes : Learned how the investment banking division functions and the various aspects of it Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Financial management, fundamentals of finance and accounting	2018-19-sem2
Credit Suisse- Investment Banking and Capital Markets ,	Working with the lead analyst of a particular sector, analyzing company results. Regularly putting out company and sector notes giving buy/sell recommendations on various stocks. Learnt a lot about practical use of different valuation methodologies. Tool used (Development tools - H/w, S/w) : Bloomberg Objectives of the project : To understand the IT industry, the stock covered in it and give buy/ sell recommendations on them with proper justification. Major Learning Outcomes : Working on deadlines, using of valuation multiples and data in an effective way. I also learnt how to put across an idea in an effective way (e.g.- stock pitch) Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment was quite friendly with the head of research regularly interacting with us. So, met the general expectations. Academic courses relevant to the project : Financial Accounting, Financial Management and BAV	2018-19-sem2
Cypress Semiconductor India Pvt Ltd. , Bangalore		2018-19-sem2

Company	Experience	Year
Cypress Semiconductor India Pvt Ltd. , Bangalore	• The first task is to run the simulations for different MCS and channel environments and form a framework for the selection, that is the parameter should be such that is it works in nearly all channel and modulation scenarios. • The next step is to define the parameter for cyclic prefix selection after observing the performance of all the guard intervals in all the simulations. • Third step is to investigate where in the codebase all the processing on the channel is taking place and form a crude logic for selection. • Last step is to test whether the proposed logic or parameter is giving the desired results. Tool used (Development tools - H/w, S/w) : MATLAB,C++,C,TCL,PEARL,PYTHON Objectives of the project : CYCLIC PREFIX SELECTION IN 802.11 AX WIRELESS STANDARD Major Learning Outcomes : How to apply the OFDM concepts learnt in class to practical scenarios and use the software tools to meet the above objective Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Advanced Digital Communication,Mobile Personal Communication,Advanced Digital Signal processing	2018-19-sem2
Cypress Semiconductor India Pvt Ltd. , Bangalore	The problem was to read, speculate and understand the already present codebase and then document the same. In addition to that fix the bugs and to find the new aspects in which the Utility can be implemented for Cross-Platform support. The Utility needs some amendments as some families along with the applications are to added, the task is to add these parameters. For this a new version 2.0 is needed and I was asked to do Proof of Concept for the same. Tool used (Development tools - H/w, S/w) : • Microsoft Visual Studio 2015. • CY4531 EZ-PD™ CCG3 Evaluation Kit. • CY8CKIT-002 PSOC Miniprog3 program & debug kit. • Star UML(for documentation of memo). • C (DLL) • C# Objectives of the project : To do Proof of Concept for the EZ-PD Configuration Utility 2.0 Major Learning Outcomes : Understood the OOPs and Event based programmming cocepts. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : N.A.	2018-19-sem2

Company	Experience	Year
Cypress Semiconductor India Pvt Ltd. , Bangalore	Design of high speed receiver for eUSB Tool used (Development tools - H/w, S/w) : H/w Objectives of the project : Design of high speed receiver Major Learning Outcomes : How to design pre amplifier and output stage Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Analog IC Design	2018-19-sem2
DAR Al-Handasah , Pune		2018-19-sem2
DAR Al-Handasah , Pune	I have been assigned highway design project and was mainly dealing with geometric design elements of the pavement. I was a part of the project work carried out in Saudi Arabia, Qatar. Tool used (Development tools - H/w, S/w) : AutoCad Civil 3D, Autoturn, AutoCad Objectives of the project : To design the pavement keeping in view the important aspects of design especially drainage and cost Major Learning Outcomes : I have learnt software known AutoCad Civil 3 D which is very helpful in designing a road section Details of Papers/patents : Brief Description of working environment, expectations from the company : Dar Al Handasah is a renowned organisation and to become a part of it is considered to be an auspicious step. Moreover all the staff members are very cooperative and helpful. My expection from the company is to earn more experience as practical knowledge means a lot in any field of engineering. Academic courses relevant to the project : Highway geometric design, traffic engineering	2018-19-sem2
DAR Al-Handasah , Pune	It basically involved design of industrial plots in different parts of the world which consisted of geometric design of the internal roads, signage and marking plan, vehicle simulation and preparation of bill of quantity. All the designs were performed keeping in mind safety and cost. Tool used (Development tools - H/w, S/w) : Civil 3d 2019, Autoturn Pro Objectives of the project : Geometric Design of road infrastructure and highways Major Learning Outcomes : Detailed geometric design of road infrastructure and highways Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment is quite good and the enthusiasm of the people to share knowledge is appreciable. Academic courses relevant to the project : Highway Geometric Design	2018-19-sem2

Company	Experience	Year
DataM Intelligene 4Market research , Hyderabad		2018-19-sem2
DataM Intelligene 4Market research , Hyderabad	Initially 2-3 months I was assigned to a group who are already working on a consult project related to electric light commercial vehicles. Later on I switched on to working on competitive analysis of the deliverable reports which includes profiling key players. The last 2 months I started working on Report descriptions and reports giving me an opportunity to gain in depth knowledge of company tools. Tool used (Development tools - H/w, S/w) : Microsoft Excel, Microsoft Word Objectives of the project : Karsan, A Turkish commercial Vehicles manufacturer wants to enter the EV commerical vehicles market in Europe. A report pertaining to the market research for all the factors that can influence usage of adaptable EV Chasis system to the extended light commercial vehicles. This includes prioritizing market, customer groups, market estimation for LCV segments (truck, van and bus) in 6 European countries including each country's regulations and initatives. Major Learning Outcomes : Data interpretation, Assessing market changes and future perspectives Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Engineering Chemistry, Material Science,TRW, POE, General Biology	2018-19-sem2
DataM Intelligene 4Market research , Hyderabad	I did the complete analysis and wrote in-depth market reports for various markets in different domains. Tool used (Development tools - H/w, S/w) : S/w Objectives of the project : Market Report Writing of Various Markets Major Learning Outcomes : I learned how to analyse market, what factors affect it, and how to write it in reports according to a client's needs. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : -	2018-19-sem2
DataM Intelligene 4Market research , Hyderabad	In the initial phase of joining DataM Intelligence on January 7th, 2019, I was incorporated into business development team. In business development, I must generate leads and identify prospects for conducting a sale. There are various processes in business development. I mostly work on generating leads, verifying and validating the authenticity of those leads, and converting those leads into prospects for sale. This went on until February 12th, 2019 and then I was taken into a consulting project that we were doing for	2018-19-sem2

Company	Experience	Year
	KARSAN, a Turkish vehicle manufacturing company, who want to produce electric delivery vehicles in European region. They want to learn which market is important for New Generation Delivery Electric Vehicle and prioritize market in accordance with findings. In this consulting project, there are many people involved and each had their own task to complete by the end of project. I was in charge of finding the Key trends and developments, Market drivers and restraints, Market entry barriers in France, UK, Germany, Norway, Sweden and Netherlands in first half of the project. Then in the second half, I had to do the supply chain analysis in the above mentioned countries and also compile all the government regulations and incentives in those countries. My internship ended on June17th, 2019. Tool used (Development tools - H/w, S/w) : Different tools we use for lead generation areSales navigator – LinkedIn Hunter Emaillistverify Zero bounce Tempmail Mail tester Dot vpn Express vpn Browsec Microsoft Excel Objectives of the project : For setting a new business or even improving the existing one, the company needs to know their customers. They need to know to whom they are going to sell their product. Here comes the need for market research reports. No matter what the industry is all about, but to compete and to get endless benefits, the market research reports are important to know about our competitors, about various cracks occurred previously and many more factors after which it becomes very easy to analyse the market and to make the better decisions in the future. Major Learning Outcomes : Business development with Lead Generation from the Outbound Marketing, E-mail Marketing and Karsan New Generation Delivery Electric Vehicle Details of Papers/patents : Brief Description of working environment, expectations from the company : Company atmosphere is really great Scope of learning in the company is good We can Explore Various Domains after joining the company Added if you get an year experience we can expect great pay.Company Takes time to explain to the interns from the scratch.They expect on time delivery of the work considering capability of the individual. Academic courses relevant to the project : POE	
DataM Intelligene 4Market research , Hyderabad	Student	2019-20-sem2

Company	Experience	Year
DataM Intelligene 4Market research , Hyderabad	Taking leads has been my task everyday a list of 40 companies,1 market and sale of the market which is none of other than taking conversion has been my work during my PS2 . Tool used (Development tools - H/w, S/w) : Mail tester,hunter,zero bounce Objectives of the project : To bring main aspects of a business ,to bring discussion opinion is the main objective Major Learning Outcomes : The main outcome to enhance competitivenessacross different geographies in their respective industry domain. Details of Papers/patents : - Brief Description of working environment, expectations from the company : The environment at my company is quite encouraging and quite good. Academic courses relevant to the project : -	2019-20-sem2
DBOI - Business Finance , Mumbai		2019-20-sem2
DBOI - Business Finance , Mumbai	My daily task was to report front office P&L and risk for the portfolios assigned to me on T+1 basis. I also had to ensure that each and every trade has been booked correctly and if not, then rectify it by myself or get it rectified by liaising it with trader/ trader assistant / other teams involved. Apart from that, we also had to resolve cash breaks in the portfolios assigned to us. Tool used (Development tools - H/w, S/w) : Internal Softwares of the company Objectives of the project : PnL & Risk Reporting Major Learning Outcomes : 1. PnL & Risk reporting 2. Financial Products Knowledge Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is really good. Everybody help each other whenever needs to be. Academic courses relevant to the project : DRM	2019-20-sem2
DBOI - Credit Risk , Mumbai		2018-19-sem2

Company	Experience	Year
DBOI - Credit Risk , Mumbai	I worked in the Global Credit and Ratings Team under the subdivision Leveraged & Structured Finance. As a part of the team I was responsible for various operations. I was allotted the construction industry along with the European and North American Economy for daily monitoring. Any event that could have an impact on the credit rating had to be reported daily to the manager. I was also responsible for spreading the financials for various counter parties (CPs), writing risk tracker entries, calculating adjusted EBITDA and making enterprise value capitalization table. I also worked on a complete credit rating case for a CP in the USA broadcasting industry, presented the case in the rating committee and got it approved. Tool used (Development tools - H/w, S/w) : Excel and BARS Objectives of the project : To arrive at the credit rating of the given CP. Major Learning Outcomes : Credit rating and monitoring process. Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment was very friendly and the colleagues were very supportive. Everyone was willing to help and I had a lot of work to learn from. Academic courses relevant to the project : Fundamentals of Finance and Accounts, Business Valuation, Financial Management.	2018-19-sem2
DBOI - Market Risk Analysis & Control , Mumbai		2019-20-sem2

Company	Experience	Year
DBOI - Market Risk Analysis & Control , Mumbai	I worked for the Credit Risk team in Risk Methodology department. I worked on producing monthly and quarterly reports to analyse the probability of default of clients and the distribution of clients across rating clients. I also worked on PD model development where we would choose the most suitable variables and apply them to determine the best fit model for calculating the probability of default of a client. Tool used (Development tools - H/w, S/w) : SAS, MS EXCEL, POWERPOINT Objectives of the project : Determine PD of clients, examine functioning and validity of development model, develop best fit PD model, generate monthly/quarterly models Major Learning Outcomes : Learnt to work on SAS and advanced Excel. I also got a lot of exposure in terms of interaction with stake holders and senior executives. I got to present three reports in front of senior executives in Frankfurt and Berlin over video conference which was a Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment was great. The employees there are very kind and supportive in their behaviour. The transition from academics to a corporate environment is tough but exciting. There is a greater sense of routine and discipline is a highly appreciated trait. The employees also involved us in fun and sport activities after work hours. Academic courses relevant to the project : None as courses taught were relevant for market risk, while my work was in the domain of credit risk.	2019-20-sem2
DBOI - Market Risk Analysis & Control , Mumbai	Assigned to Run The Bank - Change team. The team had periodic and non-periodic projects. I was the report owner of Stress Period Selection testing. Advanced Excel helps. Coding allowed me to automate some processes. Tool used (Development tools - H/w, S/w) : Excel, R, SQL Dev Objectives of the project : Stress Period Selection Major Learning Outcomes : Project Management, Advanced Excel, Risk Management, Problem Solving and Stakeholder management Details of Papers/patents : - Brief Description of working environment, expectations from the company : - Academic courses relevant to the project : Derivatives and Risk Management	2019-20-sem2
DBOI - MLRM, Risk Methodology & NFRM , Mumbai		2018-19-sem2

Company	Experience	Year
DBOI - MLRM, Risk Methodology & NFRM , Mumbai	Learnt basics of how Market Risk management works Tool used (Development tools - H/w, S/w) : Python, SQL Objectives of the project : Worked on several automation projects Major Learning Outcomes : Market Risk Management Details of Papers/patents : Brief Description of working environment, expectations from the company : Friendly work environment, less pressure Academic courses relevant to the project : DRM, FRAM, OOP	2018-19-sem2
DBOI - Trading Risk & PL , Mumbai		2018-19-sem2
DBOI - Trading Risk & PL , Mumbai	Daily risk reporting and Profit and loss reporting, ensuring book completeness, adjustments and reattributions as part of daily processes. Month end activities to ensure ledger and front office number in line. Tool used (Development tools - H/w, S/w) : Excel Objectives of the project : Daily tasks, reporting risk and P&L and ensuring book completeness. Major Learning Outcomes : Gained proficiency in system flows in an investment bank, importance of product control, and the necessity of bookrunning. Details of Papers/patents : Brief Description of working environment, expectations from the company : Great working environment, realistic expectations, supportive team and manager. Academic courses relevant to the project : Financial management, FUFA	2018-19-sem2
DBOI , Pune		2018-19-sem2

Company	Experience	Year
DBOI , Pune	Work was based on Big Data Analytics for Trade surveillance. I was engaged in writing modules for data sourcing,testing (Behavioural Driven Development),data profiling, analysing Data through dummy machine learning models and visualisation through graphs. Worked on the presentation later and Rendered graphs with Highcharts (JavaScript) for business users .Further Work is also associated with UI development and technologies that integrates machine learning that could replace existing system and enhances decision making of business and financial analysts. Tool used (Development tools - H/w, S/w) : Hadoop and spark, Python, JavaScript, AngularJS Objectives of the project : Behavioural modeling of the Traders to detect fraudulent activities and enhancing decision making of business analysts Major Learning Outcomes : 1.Using big data and spark for solving use cases in the finance industry. 2. How handling data can be a challenge 3. Including business perspective while designing solutions 4. Importance of testing 5. Importance of UI for business users 6. Handling changing business requirement and rework involved 7. Agile development Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Machine learning, Software testing , web technologies, Data warehousing	2018-19-sem2
DBOI , Pune	Project was related to client life cycle management which had used technologies ES, logstash , KIBANA Tool used (Development tools - H/w, S/w) : ELK stack Objectives of the project : Manage client data Major Learning Outcomes : ELK STACK Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : JAVA , NETWROKING	2018-19-sem2

Company	Experience	Year
DBOI , Pune	Kore.ai is a platform which provides tools, processes and methods to develop business-ready Chatbots. It also offers Bots SDK's as client libraries which can be used as an Angular service to integrate Chatbot on any environment. Later on this service is provided as a npm package to the end user so they can directly install the package to get the particular Chatbot integrated in their environment. Used NLP techniques to train the bots for their specific task. Tool used (Development tools - H/w, S/w) : Software tools: Angular JS, Spring Boot. Objectives of the project : To provide service as a npm package to integrate Chatbot on any platform. Major Learning Outcomes : Angular JS, Spring Boot. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Work environment is competitive and this helps us learn and always be updated with the latest technologies. Academic courses relevant to the project : Advanced Java.	2018-19-sem2
Decision Resources Group , Gurgaon	Student	2018-19-sem2
Decision Resources Group , Gurgaon	My work was based on advanced therapies of Cancer- based indications wherein I had to keep track of latest trials of these therapies and upload this data to the dashboard which is used by the clients of the company Tool used (Development tools - H/w, S/w) : MS Office and company's online portal where data was to be uploaded Objectives of the project : To monitor Clinical trials of Cancer- based indications Major Learning Outcomes : How clinical trials are studied & what information one can get from clinical trials Details of Papers/patents : Brief Description of working environment, expectations from the company : Company has healthy working environment and everyone is helpful Academic courses relevant to the project : During my entire PS, different subjects were relevant (not all were directly related to project but were useful) which include CR (specifically), Advanced Pharmacology, IPR, PAM etc.	2018-19-sem2

Company	Experience	Year
Decision Resources Group , Gurgaon	I am serving Context Matters under the HEOR team. I have to summarise the documents given by the agencies (NICE for England, HAS for France etc) while approving the drugs (both regulatory and reimbursement) on the Context Matters platform. At present, I am working on reimbursement approvals. Tool used (Development tools - H/w, S/w) : Context Matters platform Objectives of the project : To understand various clinical and economic rationale considered by the agencies while approving the drug. Major Learning Outcomes : Understanding of different countries and their agencies, rationale behind economic and clinical basis of the drug (e.g. whether the drug is cost-effective and clinical-effective or not) Details of Papers/patents : Brief Description of working environment, expectations from the company : The environment there is silent, honest, co-operative. They believe in team working. They expect the same from the new-joinees. My manager is also cool. Academic courses relevant to the project : Clinical Research, Intellectual Property Rights (only basics)	2018-19-sem2
Dell R & D , Chennai	Comments: Expectations from industry : Students should be equipped with skills on Artificial Intelligence, Deep Learning, Machine Learning and Data Analytics	2018-19-sem2
Dell R & D , Chennai	To collect snapshot of a Live running System without hampering the running status of system Tool used (Development tools - H/w, S/w) : ptrace, fork, Linux, gdb Objectives of the project : collecting snapsot of live system without hampering production Major Learning Outcomes : learned debugging wit gdb, about coredumps, collecting coredumps, generating coredumps Details of Papers/patents : [1] man7.org. (20th Feb 2019) retrieved from http://man7.org/linux/man-pages/man2/ptrace.2.html [2] lkubuntu.wordpress.com (1st Feb 2019) retrieved from https://lkubuntu.wordpress.com/2016/01/31/injecting-code-into-running-process-with-linux-inject/ Brief Description of working environment, expectations from the company : work environment n Dell chennai is quite professional yet friendly and is open to learning opportunities for interns like me Academic courses relevant to the project : Debugging and analysis	2018-19-sem2

Company	Experience	Year
Dell R & D , Chennai	Tried to develop a In house Software Network traffic simulator to replace real hardware software traffic simulator Tool used (Development tools - H/w, S/w) : Scapy, In House Software,Python,OS 10. Objectives of the project : In house Software Network traffic simulator to replace real hardware software traffic simulator Major Learning Outcomes : Learned about Scapy,automata,python and robo scripts Details of Papers/patents : Brief Description of working environment, expectations from the company : Company was expecting to develop a dhcpv4 In house traffic simulator Academic courses relevant to the project : Computer Neworks, Python, Theory Of Automata	2018-19-sem2
Dell R&D , Bangalore	Student	2018-19-sem2

Company	Experience	Year
Dell R&D , Bangalore	Creation of test framework for testing the compliance of Elastic Cloud Storage (ECS) with respect to AWS S3. Customers of ECS can use S3 protocol to do the required operations in ECS. For that to happen seamlessly, we need to certify that every new version of ECS is satisfying the required criterias. This testing framework completely automates this picking up new SDKs in regular intervals and testing it with ECS on a daily basis. Tool used (Development tools - H/w, S/w) : IDEA intellij, Visual studio Objectives of the project : To create a test framework to certify the compatibility of ECS with AWS S3 protocol Major Learning Outcomes : Learned more about AWS S3, got to understand junit and testng framework, became more familiarized with Java, understood the working of an object storage and how it works Details of Papers/patents : Brief Description of working environment, expectations from the company : Work environment is actually good in Dell EMC. The whole team is so helping. They appreciate and recognize each other. Company expects you to finish the work given to you in perfect way before the deadline and they will encourage us to do it also. Even when there was no need for director to talk us, who is in another country, he found time to just get to know us. The work life balance is also great there. Noone expects you to stay late in the office or log these many hours. What matters is whether you are completing the work. For whatever concerns you can always talk to your manager also. So totally I can say that it is a pretty good company to work for. Academic courses relevant to the project : DSTN, Cloud computing, OS	2018-19-sem2

Company	Experience	Year
Dell R&D , Bangalore	Project assigned was to develop a complete compliance suite for AWS S3 in ECS (Elastic Cloud Storage), a product developed by Dell EMC for Object storage. Along with the certification suite, a detailed research of the differences of features implemented in ECS and AWS S3 has to be carried out to further improve the product and add more features. Tool used (Development tools - H/w, S/w) : IntelliJ Objectives of the project : To enhance the product ECS by adding more features and certifying it against the AWS S3 storage. Major Learning Outcomes : Java, AWS S3, ECS Details of Papers/patents : nil Brief Description of working environment, expectations from the company : Working environment provided was highly employee friendly, flexible, pleasant. Expectations are getting more competitive work which provides a steep learning curve and keeps you excited and challenged. Academic courses relevant to the project : Cloud Computing, Data Storage Technology and Networks	2018-19-sem2
Dell R&D , Bangalore	I worked on Pravega which is a software defined stream storage platform by Dell emc.my job was to create unit tests and resolve issues and add features to spark connectors which is used for stream analytics in pravega Tool used (Development tools - H/w, S/w) : Software- Intelli J IDE, apache spark, JDK, Gradle hardware- latitude 7390 2 in 1 laptop Objectives of the project : The objective of the project is to unit test the spark connector for Pravega(open source stream storage platform by dell) code and then add features and solve issues in the same. Major Learning Outcomes : Java, Scala, junit, Details of Papers/patents : - Brief Description of working environment, expectations from the company : Work environment is flexible. It is conducive and people are helpful and take out time to help you in case of any problem. Academic courses relevant to the project : Distributed systems, cloud computing, java	2018-19-sem2
Dell R&D , Bangalore	Creating Infrastructure for Automation of Unit Testing by writing Script in Python for iDRAC (Integrated Dell Remote access controller). Tool used (Development tools - H/w, S/w) : iDRAC (Server monitoring controller) , advance python , c, Linux. Objectives of the project : UNIT TEST VALIDATION BY AUTOMATION Major Learning Outcomes : Advance python , knowledge about idrac and servers and its monitoring . Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : device drivers	2018-19-sem2

Company	Experience	Year
Dell R&D , Bangalore		2019-20-sem2
Dell R&D , Bangalore	Build a shared component Remote File Explorer which Popup the explorer window (Modal-2) on top of parent component (Modal-1) to browse server-side directory structure in path specified on the cluster. On-click of a button in modal-1 popup the explorer window (modal-2) which contains fields viz search box, space to display the directories, back button, cancel and submit button and a text-box to display the path the selected. When a user specifies the path and click on submit button the component must return all the directories and files in that path, and this repeats even for if we click a child directory it will list all the sub directories and files in that path. Once we get the data from the cluster, we need to modify the data that is received. So that user can fetch any file stored in the cluster.And the implementation of functionalities specified above accordingly. Tool used (Development tools - H/w, S/w) : Redux-React Java Script,VM ware. Objectives of the project : The Objective of this project is built (Remote File browse Explorer) on-click of the button a modal will popup which contain fields like search box, space to display the directories, back button, cancel and submit button and a text-box to display the path Major Learning Outcomes : Web UI technology React-Redux java script,GitHub. Details of Papers/patents : Brief Description of working environment, expectations from the company : I was assigned a mentor for my work .he was always there for doubts help me in review meetings.It is good working here.They expected to complete my work with in the specified time . Academic courses relevant to the project : None	2019-20-sem2

Company	Experience	Year
Dell R&D , Bangalore	Developed an intranet web application that displays data taken from a remote server by establishing a ssh connection to the remote server. Consists of two web pages. One page is a kind of putty simulation where you can execute a single or list (file input) of commands. Second page displays a tree structure of objects taken from the server. Displaying the binary and readable format of the selected object's content. Tool used (Development tools - H/w, S/w) : Django, putty Objectives of the project : They use command line interface like console or putty . The website (my project) replaces it and makes their work easier . Major Learning Outcomes : Full stack web developmemt Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : None	2019-20-sem2
Dell R&D , Bangalore	Translation of JSON data to Binray Encoded Json using dictionaries. Tool used (Development tools - H/w, S/w) : Json , PLDM Objectives of the project : Understanding the schemas, finding the dictionaries for the given schema, encoding and decoding of Dictionaries Major Learning Outcomes : Pldm for redfish Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : OOP DSA DAA	2019-20-sem2
Dell R&D , Bangalore		2019-20-sem2

Company	Experience	Year
Dell R&D , Bangalore	I am working on a data simulation project where we simulate the data generated by Dell's Isilon Large Scale Storage clusters. The deliverable was to find out Isilon cluster size feasibility. I have designed algorithms that create millions of database rows of data for several thousand nodes across 50+ clusters. I also worked on dashboards that could handle displaying data at this scale and engineered database solutions that could handle the dataset. Further on, I also worked with networking technology and cluster simulators to further verify if the proposal was achievable. I am currently working on virtual client servers and setting them up so that they will autonomously act like real clients and read/write data on the Isilon cluster, simulating an actual client load. I used Python, InfluxDB, and Grafana for this alongside several Dell in house technologies. Tool used (Development tools - H/w, S/w) : Python, Grafana, influxDB, timescaleDB, Certain Dell Technologies, Docker Objectives of the project : Implement data generator, test influx vs timescale, simulate clusters Major Learning Outcomes : Learnt about Dell EMC Isilon product technologies, gained deep understanding of large scale database management Details of Papers/patents : Brief Description of working environment, expectations from the company : Very good working environment. all the colleagues and mangers are very nice, helpful people. They were always willing to help out and take the time to teach us what we needed to know. The company expected us to complete our deliverables on time, they understood our capabilities and expected us to learn what was needed to complete our task. Academic courses relevant to the project : Database Management, OOP, Data structures and algorithms	2019-20-sem2
Dell R&D , Bangalore		2019-20-sem2

Company	Experience	Year
Dell R&D , Bangalore	1) Modifying an existing full stack of a hardware specific web service to function without the device and using this simulation to test the front end. 2)Web security testing on a RESTful web service using an internal framework using Python. Tool used (Development tools - H/w, S/w) : Python (requests, curl, http.server), HTML + CSS, Javascript, Angularjs, C++. Objectives of the project : Dell uses a RESTful web service to allow users to interact and control a particular product of theirs. The objective of the project was to take this existing service and modify it such that the backend draws data from test inputs. Major Learning Outcomes : Full stack web development and web security testing. Details of Papers/patents : Brief Description of working environment, expectations from the company : Office culture is welcoming and relaxed. Employees are communicative and willing to help. Goals and deadlines are kept relatively broad, allowing you to take your own approach as long as you're on time and keep updating your mentor. Academic courses relevant to the project : Computer Networks	2019-20-sem2

Company	Experience	Year
DELL R&D, Bangalore	My internship journey at Dell R&D, Bangalore, Indiawas great and this is what we all should expect out of any PS station. Dell R&D for learning prospective, it was not just confined to academics and understanding corporate world, it also involved the grooming of my own personality towards professionalism and good ethics. Many people I met here had a very keen intellect. They were very humble and easy to approach irrespective of the positions they held. In Dell R&D, I worked with System Management Team. At first day in office, I completed my joining formality and met with my mentor. He give a brief synopsis of my project. This is an open-ended analytics project where I explore my advance analytics knowledge. My task was to create proof of concept for this project. The aspect of my project is to convert the log data of server into intelligence in real time. Analyze the server log files and extracting the top events in each server of datacenter and observing how the events themselves change over the longer period of time, computing a degree of rapidness of changes in events of datacenter. Cluster of related events which may refer to one customer activity and system operation, similarity between events is based on its trend and also establish the relationship between events when they occurring together. To complete this project you should have a good knowledge of machine learning technique and at least one analytics programing language. At first I relied on excessive googling and the tasks assigned to me are just required online learning and come up with one algorithm to find the top events in datacenter. I also learnt how to report to my mentor with deadlines in mind, how to adhere to deadlines and what one must do if one is unable to deliver before the deadlines. I again realized how important it was to interact with the right people at the required time, to enhance the workflow and improve the progress towards the assigned task well before deadlines. After each subtask, I had a presentation with my mentor and other technologist of Dell. And here I learnt how to present project in business prospective and enhance my presentation skill. To conclude, I would like to recommend this place as an option for all students who have software knowledge and want to experience working somewhere you will feel independent and important. These aspects of learning are difficult to obtain in the colleges, hence I am thankful for choosing PS over thesis. Our sincere thanks to PS division for this opportunity.	2015-16-sem2

Company	Experience	Year
DELL R&D, Bangalore	My internship journey at Dell R&D is a big learning experience. It was not just confined to academics and understanding corporate world, it also involved the grooming of my own personality towards gathering professionalism and good ethics. Many people I met here have a very keen intellect. They could grasp my problems in no time, explain concepts to me by coming down to my level. They were very humble and easy to approach irrespective of the stalwart positions they held. At first I relied on excessive googling and often thought the tasks assigned to me just required online learning, seldom did I realize that I had to deal with many internal documentations that are not available online. Then I had to move about and visit people to get the required documentation. I had to ask the appropriate person the relevant documentation, doubts etc. This opened me up and brought an end to my shy nature. I also learnt how to report to my mentor with deadlines in mind, how to adhere to deadlines and what one must do if one is unable to deliver before the deadlines. I again realized how important it was to interact with the right people at the required time, to enhance the workflow and improve the progress towards the assigned task well before deadlines. For instance I could have saved valuable time by reporting that I could not compile my own written providers in my environment instead of debugging the environment (which I did for many days). While I asked for help, another senior pointed out that my environment is buggy and I must consider getting a new environment. My mentors assigned at Dell were very encouraging and guided me meticulously. I was motivated to continue the hard work due to their managerial skills, even at times when I was struggling to deliver the required tasks. I was very fortunate to also work on my friend's data science project apart from my own provider development project on finding VM information. My friend and his mentor used to conduct open discussions were I usually sit for work. I was attracted to by their flow of thoughts and followed their conversations and their project ideas. A point came about where their discussion turned to statistical distributions etc – which are my interests too. I started along with their conversation sharing my ideas on distribution fitting, goodness of fit chi-square tests and Survival Analysis for failure data. As they encouraged me, I could contribute important statistical analysis for their failure data in R- the statistical programming language. My friends mentor lauded me for my contribution and is further working with me with	2015-16-sem2

Company	Experience	Year
	his data sets. My friends mentor also guided me with his insights towards my own project implementation. As I intend to follow up a data science career in the near future, this was a truly fulfilling experience to me. Lastly the most delightful part is that the provider that I am writing will be bundled into a package available as a part of an upcoming release. Further any provider for VMWare's ESXi OS can be certified by VMWare and it is a matter of pride for the provider developer. I will be applying for certification once I complete the provider to find essential VM information. These aspects of learning are difficult to obtain in the academia/schools/colleges, hence I am indeed grateful to BITS Pilani for the PS2 experience.	

Company	Experience	Year
DELL R&D, Bangalore	My PS 2 station is Dell R&D, Bangalore. My experience there has been one of the most diverse both from the learning point of view and from gaining an insight of the industrial experience. Working in an R&D organization of Dell gave me ample amount of time to nurture my work ethics and at the same time offering enough flexibility to tackle the problem with innovative approach. Also working with the mentors who have been in industry for more than 10-15 years also was an important experience in itself and taught the importance of working in a team. Our mentors in the beginning itself taught us the importance of the respective projects and signaled a sense of trust in us which rather made us more responsible and sincere towards our project. We were also encouraged to communicate freely to our mentor anytime without inhibition if we were facing any difficulties. As soon as we arrived, we were given the choice to choose our project according to one's own interest. I took the project related to simulation of Idrac operations as it look exciting and having various layers of implementation. The technical part of the project included web services and Java, Python as the programming languages. Apart from this throughout the project we also discovered the current trends and technologies relative to the field. The other important concepts I learned from this project included multithreading, Java RMI, client server paradigm etc. Apart from the technical aspects, getting an insight of the real world experience was another major advantage. Although the experience was not completely a smooth ride as there were times when I was stuck in some parts related to the projects. However the support and motivation provided to us by the mentor was rather a much needed boost to overcome such difficulties which in turn prepared me for tackling odd situations. Apart from it seeing the work environment in Dell also helped in gaining insight of the professional ethics of the corporate world. I would like to conclude by saying that I would like to thank PS2 division for providing such a unique program to students where they can both learn and grow their personality simultaneously. Apart from this I would also like to thank my mentor Mr. Rveendra Madala in Dell for constantly motivating us and PS assigned faculty Mr. Nayan Khare for being approachable for any queries regarding the college course to be followed apart from the onsite project.	2015-16-sem2

Company	Experience	Year
Divgi TorqTransfer Systems Pvt. Ltd. - Bhosari , Pune		2019-20-sem2
Divgi TorqTransfer Systems Pvt. Ltd. - Bhosari , Pune	1) Preparing Tooling Budget of LRP++ projectsUAZ 6 Speed MT, E Gear Drive & DCT: The project aimed to find out the total cost of tools required to prepare a budget for the LRP++ projects, especially E-Gear Drive & DCT. 2) Cycle Time Calculation of Gear Grinding: The project aimed to provide the formula for calculating the cycle time of the grinding process, using the provided real time data recordings and also improve the productivity of the process. 3) Capacity Planning of machines involved in different machining processes: The project aimed to determine the allotment of machines available in the production unit of the organization according to the part specific machining requirements and check whether there is a requirement of purchasing new machines. Machining processes are broaching, chamfering& roofing, hobbing, shaping& shaving. Tool used (Development tools - H/w, S/w) : Microsoft Excel Objectives of the project : 1)To budget the total cost of tools required for the production of E Gear Drive & DCT for the year 2020-21 & 2021-22, 2) To derive the formula for the cycle time of gear grinding process being performed in the production unit, 3) Major Learning Outcomes : 1) Parameters on which the cycle time calculation of gear grinding depends- tooth depth, approach length, helix angle, wheel diameter, axial feed, no. of starts in wheel. 2) No. and types of machines available for production of parts. 3) Process of allotm Details of Papers/patents : Brief Description of working environment, expectations from the company : Opting for Divgi TorqTransfer Systems as my Practice School 2 station has been very beneficial for me. I was able to gain the knowledge and an industrial perspective similar to what I had expected. Other than the projects and technical work, I was able to gain personality development by inculcating the qualities such as discipline, punctuality & time management. I found the work culture of the organization very good and the coordination between the employees is very commendable. It has given me immense pleasure to work here for these 5 months. Academic courses relevant to the project : Lean Manufacturing, Manufacturing Management, Metal Forming & Machining, Manufacturing Processes	2019-20-sem2

Company	Experience	Year
Divgi TorqTransfer Systems Pvt. Ltd. - Bhosari , Pune	Prototype Development for 5 Speed and 6 Speed Manual Transmission Cases. I was also involved in the designing of packaging box layout for shipment of Outer Core Assembly to the Sonalika group and the design of the preliminary floor layout for the 5MT assembly Main Line. Tool used (Development tools - H/w, S/w) : MS Excel, MS Powerpoint, UG NX 12.0, SMT Masta 10, SmartDraw Objectives of the project : The objective of the project is to assist in the manufacturing and design corrections that take place during development of a working prototype. Major Learning Outcomes : Learnings Related to project Learned about working of transmission, synchronizers, transfer cases and shift mechanisms Learned about various problems related to "Smooth Shifting" and how to identify and rectify them Technical Skills Learnt Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment of the company was quite friendly and helpful. I was guided by my mentors and helped by my fellow interns in any event when I was stuck or confused. The company employees are warm & understanding and enough time is given to complete the tasks and projects allotted to you. Academic courses relevant to the project : Manufacturing Management, Lean Manufacturing, Design of Machine Tools, Tool & Fixture Design, Machine Design & Drawing, Engineering Graphics	2019-20-sem2
Divgi TorqTransfer Systems Pvt. Ltd. , Sirsi		2018-19-sem2

Company	Experience	Year
Divgi TorqTransfer Systems Pvt. Ltd. , Sirsi	Using lean principles and lean tools to improve the plant efficiency Tool used (Development tools - H/w, S/w) : Excel, Python, Edraw, Objectives of the project : To improve the lean score and reduce the wastes in U375 UOPS Major Learning Outcomes : 1)There are many industrial techniques applied on shopfloor for standards, quality etc. , learning them would help students a lot. • Use of CMM to generate Lead & Profile Graphs to understand the tolerances and state of the job. • Statistical Process Control (SPC) helps to track the jobs, those that are within the limits are considered but the rest are rejected/reworked. • There are many techniques applied in Line Audit including visual inspection. • MPL, SOS, JES, Control Chart are used to provide the standards for operators and ensure the uniformity of jobs throughout the shift. • Testing cell conducts endurance tests on Gear Boxes, the design flaws can be clearly seen here. 2) Value Stream Mapping: This tool helps in identification of wastes and bottlenecks in processes, it facilitates the application of Kaizen, thereby optimizing the future state. VSM can be mapped in excel or softwares like edraw Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Lean Manufacturing, Machine Design and Drawing (Gears part)	2018-19-sem2
DMI Finance Private Limited , New Delhi	Student	2019-20-sem2

Company	Experience	Year
DMI Finance Private Limited , New Delhi	An income prediction model for the customers who had taken a loan from the company was developed. Machine Learning Algorithms like XGBoost, Random Forest Regression etc. were used to predict the income. Before that the data to develop the model was accessed using the AWS Athena service. SQL was used for data analytics and relevant data was downloaded. Then the python IDE Spyder was used to develop the model. The basic workflow was as follows:- a)Visualization of the relevant data, b) Missing Value Imputation, c) Feature creation using the data, d)Finding the trends between independent and dependent variables e)Using various machine learning algorithms for prediction f)hyper parameter tuning. After model development the model was deployed on the Lambda service of AWS and an API was created for real time results. Tool used (Development tools - H/w, S/w) : AWS Lambda, Athena, S3 Bucket, SQL, Python SciKit Learn, Pandas, SciPy, NumPy Objectives of the project : Develop an Income Prediction Model Major Learning Outcomes : Machine Learning Model Development, Data Visualization, Data Cleaning Details of Papers/patents : Final Report uploaded on PSMS Brief Description of working environment, expectations from the company : Great working environment and good learning opportunity. Small team of very helpful people. Working on live projects. Good Work-Life Balance. Academic courses relevant to the project : Machine Learning, DBMS, Python	2019-20-sem2
Door Sabha Nigam Ltd. , Chennai		2019-20-sem2

Company	Experience	Year
Door Sabha Nigam Ltd. , Chennai	Reconciliation is process of analyzing and ensuring all sets of data are in agreement. This project ensures to validate and verify all sets of records at required checkpoints. This web framework also presents the report of errors and mismatches (if any) after validation of all sets of records. This detailed report of error analysis helps to avert any billing/revenue leakage. This project presents an easy solution to verify all the records for desired period. Error reports presented from this project would save a lot of time which otherwise would have been a tedious process for validation of records. Tool used (Development tools - H/w, S/w) : Struts, Maria DB, HTML, CSS, JavaScript, jQuery, Shell script. Objectives of the project : Creation of web framework which ensures record reconciliation. • Automation of script for counts extraction and computations from log of different locations and modules. Major Learning Outcomes : web development, java Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : OOPS, DSA	2019-20-sem2
Dorsch Consult (India) Pvt. Ltd., , Mumbai	Student	2018-19-sem2
Dorsch Consult (India) Pvt. Ltd., , Mumbai	The company is a PMC. The work is related to planning, scheduling, tendering, cost estimation, BOQ preparation etc. The block cost estimate was prepared and pre-tender schedule was also prepared. Tool used (Development tools - H/w, S/w) : MS Excel, AutoCAD Objectives of the project : Construction of new PTB at Dehradun Airport Major Learning Outcomes : Scheduling, Block Cost Estimate, Rate Analysis, Manpower Calculation Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Construction Planning and Management	2018-19-sem2
DreamWorks Animation, Bangalore	As an intern, I would consider myself very fortunate to have this opportunity to work at one of the biggest animation studios in the world. Thanks to the tremendous efforts of my mentors and supervisors I was able to develop many aspects of my understanding of professional life in terms of both technical and soft skills. The activities that helped me gain more confidence and motivation for work are: Participation in regular weekly meetings, Conducting presentation and demonstrations for the tools and plugins developed, Improving my problem solving speed by learning the correct	2015-16-sem2

Company	Experience	Year
	approach techniques, Developing friendly and fruitful relationships with my colleagues and mentors, Expressing my ideas and taking up responsibilities when needed, Contributing new ideas to my mentors, Never hesitating to ask a question no matter how silly it seemed, Improved my programming and problem solving skills drastically, Developed a clear understanding of the software life cycle in terms of maintenance and incremental version upgrades. The project I was working on involved elastic search, logstash and kibana. Learning three completely new pieces of technology was a daunting task but under the guidance of my mentor Jaskirat Singh, I was able to complete my project successfully. The few prerequisites to working in Dreamworks is a thorough knowledge of data structures and algorithms and an understanding of how to work with object oriented programming languages. A basic knowledge of computer graphics is also mandatory. I believe that my term here at DreamWorks Animation, Bangalore has been a wonderful experience and was a huge success for me as it not only opened up a whole new world of talent in Computer Graphics but also allowed me to interact with different parts of the production pipeline that helped me have a better understanding of the animation industry. This internship has provided me the confidence and ability to learn entirely new technologies in short span of time such as the numerous studio specific technologies. The exposure has been one of the key factors in my overall career growth. To conclude, I would like to recommend this place for all Computer Science students who want to experience working in the Animation Industry and understand the intricacies involved in the process of film making. The team is extremely friendly and very supportive. The perks that we get, including the regular movie nights, team outings, good breakfast, etc is an additional bonus. The environment is very conducive to learning. Each intern is given individual projects to work on which leads to a feeling of responsibility. Overall, working at Dreamworks Animation has been an amazing experience. My sincere thanks to PS division and to Dreamworks for giving me this opportunity.	

Company	Experience	Year
DreamWorks Animation, Bangalore	It was a great experience to work as technical director in a world famous company such as Dreamworks Animation. Major learnings during this awesome time was improvement in technical skills, better knowledge of animation industry and skills to work as a part of a big team. Initial couple of months, we had training to get familiarized with the studio pipeline as we don't have much exposure to animation field during our college. Training includes basic flow of assets through different departments such as art, modelling, layout, animation, character effects, FX, lighting, matte painting etc. revision control system used in the studio, studio standards while coding, basic walkthrough of Dreamworks proprietary softwares such as PREMO(animation) and TORCH(Lighting), basic python and few classes of studio python libraries. Usually technical director supports one of the departments (ex: layout, animation, etc) whereas I was initially assigned the role of pipeline development. Most of the codes in the studio is written in python. Therefore, I had to learn python to begin with pipeline development. Initially, I was assigned a minor task of integrating sync status between DDU (Dreamworks India) and GLD (Dreamworks USA) in one of the existing tools. It helped me in getting familiarized with python as well as helped me to learn how to work with long codes written by others. My next task was to create a PyQt GUI that would take care of necessary transfer between the studios. This assignment helped me in learning more about the pipeline as well as helped me to learn PyQt. This assignment was followed by a task to add certain features to an existing web app. I had never worked with web apps before this and therefore this also was a good opportunity to learn web development. Therefore, for all the tasks mentioned above I had to learn something new. Each and everyone in the TD team is so enthusiastic to help but at the same time they don't spoon feed us rather provide us with the right directions. Later, based on my request, I was assigned to animation department to support them as a technical director. It has helped me to understand the animation pipeline better and at the same time it gave me immense pleasure to work with such talented artists. Working as part of such a big department has helped me to improve my soft skills to a great extent. To conclude, I would recommend this PS station to students who are deeply interested in animation industry as well as have the interest to learn new stuff based on requirements.	2015-16-sem2

Company	Experience	Year
DreamWorks Animation, Bangalore	The six months I spent at DreamWorks Animation was like a joy ride, I just didn't realize how time passed so quickly! Being my first internship in the industry, I was quite nervous initially about the "corporate" world and how I would fit in. DreamWorks was just like an extension to BITS, setting aside the fact that the place is full of BITSians, the work culture here too is quite a lot like BITS, fun and chilled out but at the same time rewarding in terms of knowledge and exposure. I was part of the Research & Development team here in DDU. My project involved the development of a Spring-boot based web application using NoSQL databases to store and search for schema-less JSON data. The application was targeted for use in the studio internally to store and search across metadata generated by the various in-house studio softwares. The first week was spent in training us about the tools used in the studio and other technologies specific to DreamWorks. Later, my mentor very patiently took me through the basics of all the technologies required for the project. Also, whenever I got stuck at any point she would always help me out, encouraging me to think for a solution myself. A large chunk of my project involved researching NoSQL databases for picking the right fit for the project. The Database Systems course I studied at BITS was really helpful here; watching the practical applications of what I studied in theory was an enriching experience. Also, the object oriented programming course was a good background to the mechanism of writing code in the industry. I have learned a lot through the duration of the course both in terms of technical knowledge and other valuable soft skills. I gained an insight into all the phases a software tool goes though in an organization, right from the ideation phase to the deployment. I developed an understanding of good coding practices to ensure reusability and readability of code in a collaborative environment. I also had the opportunity to develop my personality by interacting with various people across the organization. Another important takeaway for me was the insight I gained into the process of making an animated movie. Being a complete outsider to the industry, I believe I have now gained a good understanding of all the nitty-gritties involved in the process of movie making. In conclusion, my time at DreamWorks was memorable and enriching.	2015-16-sem2

Company	Experience	Year
DreamWorks Animation, Bangalore	I worked as a Technical Director (TD) intern and my role involved technical support for the Image Finaling (compositing) department and general software development to improve the graphics pipeline at the studio. Skills you need to function as a TD are a good grasp of any programming language (Python is the commonly used language for TD tool development) and some understanding of software development. Knowledge about any 3D/compositing software (Maya, Houdini, Nuke, Photoshop etc.) would be very useful as well (not a requirement). The knowledge I gained during the course of PS II would be: Overview of the studio pipeline, Familiarity with Photoshop and Nuke, Good programming practices, writing maintainable code, documentation, How to read code, get to the relevant details and integrate code with existing tools, Time management and prioritising development vs. support tasks.	2015-16-sem2

Company	Experience	Year
DreamWorks Animation, Bangalore	As a Technical Director intern DreamWorks Animation India, my work was centered on pipeline development and support for upcoming movies. I was responsible for a varied set of tasks including improvement of workflows in movie making, laying down best practices, proactive resolution of technical issues in the studio pipeline, bug fixes and development of tools so that artists can work effectively. The skills required to carry out these tasks include an understanding of the studio animation pipeline and relevant computer graphics concepts, familiarity with Python and shell scripting, and the ability to effectively prioritize issues. Interaction with people at the studio, problem solving in a live production environment and self-directed learning helped me acquire these skills. As a fresher in the industry, interacting with people at the studio was a terrific learning experience. Working with technical people and artists at the studio has expanded my knowledge of both the technical aspects of a production pipeline and artist workflows in the VFX/animation industry, and it was inspiring to see everybody share passion for their work. My mentors and colleagues were always patient and willing to educate me on unfamiliar (or familiar) subjects, and during my internship I have learnt more about everything from good programming practices to big ideas for integrating new technologies into the studio workflows. Ongoing projects in the studio also exposed me to industry relevant applications of concepts from a wide range of domains including core graphics development, web services and user experience design. In summary, an internship at DreamWorks Animation gave me an excellent opportunity to explore the VFX/animation industry. It has helped me define my goals for the future, and the holistic combination of technical skills and soft skills that I have acquired here will help me work towards those goals.	2015-16-sem2
EA Games India Pvt. Ltd. , Hyderabad		2018-19-sem2

Company	Experience	Year
EA Games India Pvt. Ltd. , Hyderabad	Build a service named Test Analysis and /summary Generation which is used to analysis the performance of the online servers before launching a game. Tool used (Development tools - H/w, S/w) : Pycharm Objectives of the project : Analysis of the test reports generated to find the performance of online server as good or bad. Major Learning Outcomes : How to build a project from scratch Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Working environment is good here. Company expects you to complete your task on time rest you take care. Academic courses relevant to the project : Machine Learning, MySql.	2018-19-sem2
Ecom Express Pvt. Ltd. - Data Science , New Delhi		2019-20-sem2
Ecom Express Pvt. Ltd. - Data Science , New Delhi	Developed a fuel prediction model for delivery agents using various data modelling and machine learning techniques. Remodeled the delivery center allocation by locality level mapping using various geocoding algorithms. Redesigned the delivery network of over 50 cities with a coverage of 75% and an accuracy of 85%. Worked extensively on optimizing on-ground logistics costs by mapping pin-code areas and distances. Tool used (Development tools - H/w, S/w) : R, MySQL, Python Objectives of the project : Development of Fuel Prediction Model, Locality Mapping Major Learning Outcomes : R, MySQL, Python Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Suppy Chain Management	2019-20-sem2
Egnify Technologies , Hyderabad		2018-19-sem2

Company	Experience	Year
Egnify Technologies , Hyderabad	Egnify is an analytics company in the field of education. I was assigned the task of digitizing question papers and creating online tests that students can take. The question papers could be given in multiple formats (such as pdf or docx) and I was required to extract data from each of these papers. This meant separating textual and non-textual elements (such as equations and diagrams) and handling these elements appropriately. My task, primarily, was to separate textual and non-textual elements using CNNs and tag elements in a question paper in a structured format to create online tests. Tool used (Development tools - H/w, S/w) : MongoDB, Keras, Tensorflow, Tesseract Objectives of the project : My project involved converting the given document into images, building a CNN to recognize non-textual elements, extracting textual elements using OCR, breaking down the extracted data into questions (and options) and storing them in a structured manner to create online tests. Major Learning Outcomes : In a technical sense, I learnt how different machine learning models are built and how to tune these models to accommodate specific use cases. Apart from that, I learnt how a start up works from a business perspective, how projects are modelled and how technical and business outcomes of a project correlate. Details of Papers/patents : Brief Description of working environment, expectations from the company : There are times when the work load is high and there are a lot of deliverables. The timings are strict and you may have to work over time depending on how much work you have left. But the environment is very friendly and the employees are very supportive. Academic courses relevant to the project : DSA, OOP, ML, AI, Image Processing, Computational Geometry	2018-19-sem2
eGovernments Foundation , Bangalore		2018-19-sem2

Company	Experience	Year
eGovernments Foundation , Bangalore	Devised fundraising strategy for the organisation Performed landscape mapping for civic tech organisations in India Designed a marketing and outreach campaign for organisation partners, funders etc. Tool used (Development tools - H/w, S/w) : Excel, Tableau Objectives of the project : To support the Strategy, Partnerships and Marketing functions of the organisation Major Learning Outcomes : Broad level understanding of the civic tech space and government initiatives Deep understanding of fund raising research and alignment of proposals to the given value proposition Some basic marketing (e-mail marketing) tools and outreach Details of Papers/patents : Brief Description of working environment, expectations from the company : The work is okay and the people here are good. Relatively flexible work timings and the focus is on outcomes. Academic courses relevant to the project : Principles of Management, Dynamics of Social Change	2018-19-sem2
eGovernments Foundation , Bangalore		2019-20-sem2
eGovernments Foundation , Bangalore	Developed a plan for an online training and onboarding program for technological partners. Tool used (Development tools - H/w, S/w) : Overview of Learning Management Systems(LMS) Objectives of the project : To help understand the training need of technological partners and then to create a plan to enable them online. Major Learning Outcomes : Preparing and conducting a survey, managing partners, understanding the level of technological capabilities and preparing a plan for LMS. Details of Papers/patents : Brief Description of working environment, expectations from the company : The company has about a 100 employees who all work on the same floor. The environment is very relaxed. The company expects the interns to first learn about the company and the core technologies in the first month. Then clear projects are given for the rest of the 4 months. The interns are expected to work on their projects alongside any ad-hoc tasks that might come across. Academic courses relevant to the project : Principles of Management, Technical Report Writing	2019-20-sem2

Company	Experience	Year
EMC, Bangalore	I had my internship in EMC from Jan 2016 to June 2016. It was a wonderful experience as we got to work on some of the latest technologies that are being used in the world. In the beginning we were required to understand the softwares like mesos, docker etc. that were being used the project. That initially took a little while. Then we were given our main project, which was based on kafka, which is a messaging app which can send messages with a very high throughput. This is extensively used by companies like linked in. We were required to understand how it worked on the most basic level so that we could maximize the throughput on the EMC network. The entire team was experienced and extremely helpful, then were always ready to help us whenever we needed it. And also a lot of freedom was given to us so that we could explore Kafka completely and proceed in which direction we wanted to. Overall it was a great experience to work in EMC. Manager Review: Rishikesh worked on kafka performance analysis project during his internship at EMC. He diligently worked on the project and completed all the tasks assigned to him. Moreover, he was proactive in getting his queries and doubts resolved from senior team members.	2015-16-sem2
EMC, Bangalore	I have done an internship in EMC2 Bangalore which spanned over a period of 11 months (July-2015 to June-2016). I was lucky enough to be a part of a very successful product team ViPR SRM, where I was able to contribute in a couple of projects. This internship has enabled me to get a better insight of my career path because it gave me the opportunity to work in different areas of project. In the first phase of internship, I was given the task of developing two POCs. The POCs proved to be helpful in reporting and monitoring the Regression and Performance & Scale tests. This was a project with developmental nature, whereas in the second phase of the internship, my task was to do ad-hoc and functional testing of a part of the product. I believe that I was able to do a fair job during the course of internship. Apart from the technical knowledge gained, some of the greatest learnings were how to be a team player and the knowledge of corporate culture. I'm grateful to all my mentors for their guidance, without which my internship wouldn't have been fruitful. I'm sure that this experience will help me go long way in my career. Thanks to PSD and EMC Corporation for giving me a very valuable Practice School II. Maria Antony, Arockia Antony Rajesh Associate Principal Software Engineer, EMC Bangalore: Amritha has been part of our team for a period of	2015-16-sem2

Company	Experience	Year
	6 months and it is been such a great feel that she has never let us feel that she is an intern. We are working in Agile Practice Methodologies and there will be many incremental deliveries with continuous releases for every 6 months. Due to that there will be minimal time for new comers to get spike on the development. From our side, we expect the team member who onboard to be self-learning, putting quality of works, nearly individual contributor role without having much dependency with other team member for their work. She excelled in all above expectations along with being an excellent team player. Whenever we have planning of upcoming works, we really got excellent ideas/thoughts from her, which helped us in granulating the work and fine graining the use cases. Being long running and large customer base product, we not only look for technical strength from the new comers, but also ability to work dynamically in different areas of the product and strong domain knowledge. Based on that she really outperformed in all the technical areas which is used in the product. We can proudly say she is a perfect value addition to the team. Overall, we felt the great quality of engineers produced by BITS and that tells the brand value BITS is holding.	
EMC, Bangalore	Project: Automated Bulk-Discovery of ViPR Devices - For this project my mentor, H. Ramya, has been extremely helpful. Any little doubt that I had, was instantly clarified by her. She had such a thorough grasp on the ViPR client code, that it took her only minutes to find whatever I came looking for in the code. The canteen here is perfect for those late night debugging sessions in the office. Also, the overall ViPR Dev team has been really helpful and has created a very positive work environment. All of my team members have been in EMC for 8-10 years, and it is evident why. Recently, the project I had worked on was demonstrated to the Vice President of the organization, Mr. Vikram Bhambri, and it elicited very positive feedback. It feels really good to see your hard work of many months, being validated like this. A big thanks to my manager, Mr. Mallari Kulkarni, for giving me this project and helping me finish it with flair. Mentor's feedback: Aditya is a quick learner and grasps things quickly. With minimal guidance from my end, he could complete the given task ahead of deadline stipulated. Apart from being functional, he has good interaction skills across the teams which are of key importance in any field for success. It was great experience with him overall.	2015-16-sem2

Company	Experience	Year
EMC, Bangalore	Project Title- Providing support of VNX Unity in VIpr: For this project my mentor Pooja kumar is extremely helpful. All my doubts are cleared by her up to the full extend. She guided me very well throughout my whole internship and I had learnt a lot from her. The overall Vipr Dev team has been really helpful and has created a very positive work environment. EMC is famous for its storage arrays and I got the opportunity to work with one of a new storage array recently launch by EMC i.e. VNX Unity. The whole journey in the EMC is very exciting and full of learning opportunities for me. In last I would like to thanks my manager Mr. Kameswara Tangudu for helping me throughout the journey. My Mentors Side: Working with Anuj is a good experience he learned thing quickly and his grasping power is good. He tried his best to complete things on time and in proper way. He is very eager to learn new things. It was great experience with him overall.	2015-16-sem2

Company	Experience	Year
EMC, Bangalore	I have interned at EMC Corporation for two academic semesters. The company primarily works with cloud computing, data storage, analytics and alike techniques. It has one of its primary COE center in Bangalore. EMC as a company is a very professional and the same time has a very relaxed and motivating work environment. It constantly throws challenges at the employees and expects you to be updated with the present day technologies. Technologies: I have learned a lot of new technologies like Kafka, Vagrant, Ansible, Docker, Hadoop, Spring XD, d3.js, R, Google Refine, Web Development tools and various machine learning and image processing algorithms. Mentors at EMC: I had the opportunity to work with three teams during the entire stretch. My first mentor Dr.Ullas Nambiar was a principal technologist in the team; he constantly kept me on my toes by keeping me challenged with new technologies and goals every week. My second mentor was Dr. Bhargav Gulavani; he is an extremely learned person. I got an opportunity to polish my systems knowledge. My overall experience: CETI, EMC Bangalore: In this team I directly reported to the CTO Dr. Thirumale Niranjan. I worked on developing a real time data stream, an analytics dashboard which captured the contextual, temporal and geographical aspects of the data collected over Twitter. I contributed to the Healthcare product which my team was working on and it was a great achievement for me. Nautilus, ECS: My second stint in the company was in this team. We primarily focused on decoding the architecture of the Apache's messaging system Kafka. Also we did a profound research and experimentation on the performance metrics of Kafka. Lifecare MARS: I worked in this team informally and I got an opportunity to work on image analytics. We are developing an image processing pipeline. I plan to continue contributing to this project as much as I can. Mentor's Feedback: Chakshu worked on kafka performance analysis project during her internship at EMC. She diligently worked on the project and completed all the tasks assigned to her. Moreover, she was proactive in getting her queries and doubts resolved from senior team members.	2015-16-sem2

Company	Experience	Year
EMC, Bangalore	Being a part of EMC2 has been a great experience. I already had 3 years of work experience and initially I thought it would be more or less same here as well. As I got into the team and started understanding the work, it turned out to be very different from my previous experience. In my earlier company, it was a predefined set of work and process that we had to follow, but here it is totally up to you whichever method you want to take or whichever way you want to do your work. The work here is entirely exploration on our part, how much we are ready to learn and implement. Apart from learning on our own, the mentors are really helpful. They are always there to help whenever we are stuck at any point. There are few times when even they are not in the knowledge of the solution to the problem, they take out time to search with us the potential solution to our problem and help us in any way possible (mainly motivational). They try to push us to our limits of thinking. Here my primary work was on Apache Kafka, but my mentor made me learn about docker, ansible, vagrant and mesos as well initially which helped me get an overall picture of all the working in the team. This led to a better understanding of what I was actually doing and how my work was affecting the overall team and the product. It had been a great experience and got to learn a lot. Mentor's Feedback: Charupriya worked on kafka performance analysis project during her internship at EMC. She diligently worked on the project and completed all the tasks assigned to her. Moreover, she was proactive in getting her queries and doubts resolved from senior team members.	2015-16-sem2
EMC, Bangalore	My PS2 experience at EMC has been mixed. Since the delay in joining due to the merger, it has got better only. This was my first experience in an I.T. company and I was bit scared in the beginning. But much to my luck, I ended up at EMC. Everything here is awesome. The work environment, the people, the facilities they provide, the extra-curricular activities, everything is incredible. The mentor has been really cooperative. Coming on to the work, I worked on a lot of new technologies namely Microsoft Azure, Docker, Amazon EC2, Google compute, and some EMC in-house software like Content Server 7.1 and Documentum Administrator. I too have given my best. I can sum up this entire experience and proud feeling in this one line "My team dockerized the first ever EMC product on azure, amazon and Google cloud".	2015-16-sem2

Company	Experience	Year
EMC, Bangalore	I have interned at EMC Corporation for two academic semesters. The company primarily works with cloud computing, data storage, analytics and alike techniques. It has one of it's primary COE center Bangalore. EMC as a company is very professional and at the same time has a very relaxed and motivating work environment. It constantly throws challenges at the employees and expects us to be updated with the present day technologies. Technologies: The projects I have worked upon have given me good hands on experience on system programming. Key areas like Operating Systems (user/kernel land), System Programming, Data Storage and Techniques have been explored. I got a better introduction to Java Scripting and Rest APIs towards the end of my latest project. Mentors at EMC & My experience : I got an opportunity to work with technically efficient people under whose guidance my learning in software development area has enhanced many folds. Under the constant pack of challenges thrown at me by my mentors Mr. Maneesh Pusalkar, Sr. Manager, PowerPath, Mr. Vinay Rao, Principal Software Engineer, PowerPath, Mr. Ankur Dixit, Manager, PowerPath and Mrs. Poonam Garg, Sr. Software Engineer, PowerPath and with their constant support, I have learnt to tackle technical workload in a more responsible way. Mentor's Feedback: Parnika was assigned a project for developing a module that can be used in the product to pass on host related information to a central monitoring utility. This involved discussing a design with key stakeholders and implementing it with limited supervision. Parnika demonstrated good technical skills to complete the project satisfactorily. She demonstrates willingness to pick up new concepts. She is a good team player.	2015-16-sem2

Company	Experience	Year
EMC, Bangalore	It was altogether an enriching experience to work in EMC. It was great to learn so many technologies in such a small span of time and even have first-hand experience with them. I was lucky to get great mentors and a manager, from whom I have gained not only vast technical knowledge but also the qualities and confidence to build a successful career. All the employees, cordial and ever-ready-to-help, taught me something or the other, directly or indirectly. An employee-friendly and learning-conducive environment is what makes this company one of the best places to work in. Also, I would like to thank PS division for all the hard work behind giving us students an opportunity to have such a wonderful platform to grow. Mentor's Feedback: Rohit is a quick learner and enthusiastic in both designing and development with consideration towards software component modularization and object oriented aspects. He could build different prototypes of the applications taking inputs from various stake holders in short span of time. He was keen in analyzing business use cases of the feature he was working on and provide suggestions for improvement.	2015-16-sem2
EMC, Bangalore	I have been working as an intern at EMC for almost a year now and it has an enriching experience. I worked for the ECI team, in the first semester of PS, where I got the opportunity to work on technologies like Docker, Openvswitch and Ansible. In the second semester I was shifted to the Nautilus team, wherein my work revolved around Mesos and my task was to implement a few REST APIs. Most of the work was to be done in Scala. There were times when there was no work and there were also times when I had to stay in office till 9pm to complete the tasks assigned to me. Overall, it was a very good experience and I'm happy that I chose EMC as my Practice Station. Mentor's Feedback: Sachin is always eager to learn new things .He has proved his ability while working on designing and implementing REST APIs for ECS Mesos Framework. He took initiatives to identify problems and devise better solution. He consistently completed tasks assigned with utmost competence. His extraordinary communication skills makes him a great team player. Thank you for your work! I really appreciate what you have done!	2015-16-sem2

Company	Experience	Year
EMC, Bangalore	As I continued this semester with same team-MDMO (My Documentum for Microsoft Outlook) in EMC, I had the opportunity to work on new project with few experts of my team .This semester my experience was very important for my career and pretty challenging as well. I got aware with agile methodology used in team, product legacy code ,solving patch issues ,user cases and also solving bugs raised by Q.E. (Quality Engineering) .I used to be part of scrum (standup) held every day in which we had to give update or progress of the project we are working on to the manager along with all the other team –mates .My project was based on WPF using C# and it also used existing product code in C++ , with title – "Save Search for new search UI of MDMO ".We also had few fun activities as well in team like team-lunches ,throw ball match ,getting power banks to senior developers of team and to me as well by quarter budget . So, finally got well aware and have been part of the functioning of team which includes everyone – Developers, Q.E., Senior Managers, Product Owner and Project Manager.	2015-16-sem2
EMC, Bangalore	Practice School (PS) at EMC, Bangalore has been a very good experience for me. Here I got to work on some state-of-the-art technologies used in industry. I think the PS is one of the best courses I have completed in my degree. There is nothing comparable to real world experience. Working at MNC, I gained the experience of how MNCs' workflow, the work culture, the projects. I have learned a lot from colleagues as well as team leaders at EMC. The work culture is quite good which includes flexible working hours. It is really important to decide what you what to achieve from an internship so you choose the right one for you. I wanted an internship that would stand out on my CV and allow me to make new friends. I can say I am very much satisfied with this internship. I faced several challenges which are common to every new employee but overcoming them was not very hard. Overall it was a good learning experience.	2015-16-sem2

Company	Experience	Year
EMC, Bangalore	I did my internship in Data Domain which is a backup appliance generally used as storage of last resort. My work was mostly relate to Directory Management (DM) and File migration (fmig) components of DDFS (data domain file system). I also got to work on a read_failure CLI. I also worked in various side projects like MDU (minimal disruptive upgrade) and DD_DOCKY (data domain - docker solution). Objectives of the project: My first project, DD_Docky was related to a docker based solution for DD DUTI infrastructure. Its main objective to provide a customized container which could be used as desktop DD and various DUTI tests can be run on this container. Another project was related to file migration where the main objective was to verify the functionality of app-managed data movement policy for mtree. The project on Cloud_files_with_read_failure CLI had the main objective of enhancing and adding new fields to this CLI. Minimal disruptive upgrade (MDU):- The main objective of this project was to reduce the dependencies from central library (libclient.a & libclient.so). This would lead to reduced time of dd_make. It will also reduce the complexity as we are dividing DDFS components to a new library. Outcomes of the project: Projects related to file migration and CLI were successfully submitted and the bugs related to these features were resolved. Minimal disruptive upgrade is still in process. Major Learning Outcomes: I got a learn a lot about data storage and networks. Also, understood the deduplication mechanism and cryptography methods used by Data Domain for data deduplication and data compression. I understood the various components of Data domain, their importance and their individual functionality. Brief Description of working environment, expectations from the company: Working environment was really encouraging and people were helpful. As expected, i got to learn a lot about data storage appliances while working here. It was a major learning curve for me.	2016-17-sem2

Company	Experience	Year
EMC, Bangalore	My first project dealt with using scripts to filter out the errors and warnings pertaining to the Control Station, Data Movers and Storage Systems.The project was based on autorecovery of the vmax box which was achieved by executing the commands which were giving errors in the box. The second project was based on snapvx which dealt with creating snapshots by linking the source and the target.A thorough understanding of the system management tools , code study and architecture was done for this project. Tools used (Development tools - H/w, S/w): Shell scripting, Eiffel, C++. Objectives of the project: My first project dealt with using scripts to filter out the errors and warnings pertaining to the Control Station, Data Movers and Storage Systems.The second project was based on snapvx which dealt with creating snapshots by linking the source and the target. Outcomes of the project: Autorecovery of the box was achieved in the first project.We could clearly filter out the errors and take the necessary action to solve the purpose.In second project we could successfully create snapshots from time to time by linking the source and the target device. Major Learning Outcomes: Shell scripting, Eiffel,C++. Brief Description of working environment, expectations from the company: The work environment of EMC is very good.Very flexible work hours and friendly environment.The technologies that they use are very good and the code is very flexible and easy to understand.The projects done were challenging but could be completed on time.The mentors who guided us were very friendly and not only they gave us tough challenges but also guided us to achieve our goals.	2016-17-sem2

Company	Experience	Year
EMC, Bangalore	My work involved front end development for the Data Domain System Management product. The user interface interacted with the Data Domain systems and they could be managed using this interface. All the functions carried out by DD systems could be managed by System Management product. Tools used (Development tools - H/w, S/w): GWT, GXT. Objectives of the project: To give user a way to manage their Data Domain systems. Outcomes of the project: In this project, I was successfully able to deliver various features to be added in Data Domain System Manager. Major Learning Outcomes: Major learning in front end development tools and also various backup and data protection options. Brief Description of working environment, expectations from the company: The working environment was very good. Each member of my team helped me all the way through this project. The managers were flexible in assigning work of your interest.	2016-17-sem2
EMC, Pune	Project 1 - Building a tool to automate the process of sizing which is used to for as a performance benchmark of various Data Domain Devices sold by EMC. Also detect anomaly and regression using the data collected. Project 2 - Automating DUTI Test Cases, which are used to evaluate the Data Domain Devices and log anomalies and regression. Tools used (Development tools - H/w, S/w): Language used Python and various other packages. Objectives of the project: Project 1 - Automate the generation of sizing guide. Project 2 - Automate DUTI Test Cases. (Remove manual error and speed up the process) Outcomes of the project: Project 1 completed, with extra features added to it, such as training a neural network to figure out errors and plots hinting anomalies and regression. Project 2 ongoing (At the time of filling this form). Major Learning Outcomes: Strengthen my python skills, learnt about the internal working of DD Devices and how to optimize them. Brief Description of working environment, expectations from the company: Friendly, open minded, open for suggestions, professional, willing to teach.	2016-17-sem2

Company	Experience	Year
EMC, Pune	I am developed an operating system tool, which will run on top of the EMC DDOS, to check the client side configuration while deploying the DDR and later to maintain/expand it. Tools used (Development tools - H/w, S/w): CentOS, Windows NT machines, Python, Shell, bash, HTML, CSS, JS. Objectives of the project: To develop a configuration checking tool to run on top of DDOS. Outcomes of the project: Demoed the tool and now it's ready for the beta. Major Learning Outcomes: Learned about whole bunch of protocols and operating system paradigms. object oriented design patterns etc. Brief Description of working environment, expectations from the company: Very friendly staff and people there are very supporting. On the last day manager has offered me a job, so very excited to join them.	2016-17-sem2
Ericsson Global India Pvt. Ltd. , Bangalore	I completed three small projects. First project was generating and analyzing custom reports on code complexity metrics using CppDepend. Second required automation of bug backlogs. Third project was based on CLIPS, PPPoE etc configurations on vBNG. Tools used (Development tools - H/w, S/w): Shell scripting, c, CppDepend and VBScript. Objectives of the project: Automation of error detection and bug backlogs. Outcomes of the project: Successfully automated. However improvements can be made in terms of static code. Major Learning Outcomes: In depth knowledge of VBScripting and shell scripting. Brief Description of working environment, expectations from the company: Complete work life balance, working hours stretch from 9-5. Additional benefits such as regular cultural events to break the monotony of work.	2016-17-sem2
Ericsson Global India Pvt. Ltd. , Bangalore	Developed infrastructure to collect logs in the code base without affecting the performance (the product is performance critical). Will make debugging easier in future. Tools used (Development tools - H/w, S/w): C. Objectives of the project: To develop an infrastructure for easy log collection. Outcomes of the project: Developed the infrastructure for easy log collection. Major Learning Outcomes: Handling long code base. Brief Description of working environment, expectations from the company: Flexible timing, Helpful people, Lots of seniors from BITS, Code base is not documented so development is very hard for beginners. Expect projects related to telecom sector. Not much to do with CS.	2016-17-sem2

Company	Experience	Year
Ericsson Global India Pvt. Ltd. , Bangalore	The first month was spent in learning the network technologies employed by Ericsson. Emphasis was laid on the Physical layer of networks. A project was allotted in February. Created skeleton of the directory for test module. Code review to upload the tests to Ericsson library to be done. Tools used (Development tools - H/w, S/w): CppUTest Framework. Objectives of the project: To write tests for the basic units of L2TP module in C, using CppUTest Framework for Unit Testing. Outcomes of the project: To test if the functions are up to mark and if diverse input values yield satisfactory results. Major Learning Outcomes: Experience in state-of-the-art testing technologies. Brief Description of working environment, expectations from the company: The Bangalore R & D division of Ericsson chiefly concentrates on software products, features and services. Most of the software is coded in Java. The entrusted mentors and managers were very enthusiastic and hopeful that the internship would be an excellent and useful learning experience for both the parties involved. The work culture at Ericsson encouraged us to work at our own pace and freely coordinate with experts at any level, be it a Manager or a director. We were free to come and leave at any time. Our inputs and knowledge were welcomed and encouraged. Other employees were curious about our work and were brought up to par in monthly meetings where we gave presentations and code-walk through. Extracurricular activities also find a platform at Ericsson. Quarterly-event called BEEP is a source of recreation and cheer for everyone. BITSian interns cheerfully participated in the singing and dance performances. The work given was moderately interesting. It was, however, a source of joy to see my work embedded into Ericsson libraries. The only con was that there wasn't much of a team interaction as mine was an individual project and my team-mates were busy with their own projects, which I didn't get to explore.	2016-17-sem2

Company	Experience	Year
Ericsson Global India Pvt. Ltd. , Bangalore	It was nice experience here. I got a chance to work on good integration project and make documentation. Tools used (Development tools - H/w, S/w): Java. Objectives of the project: To integrate the system with tracking tracing software. Outcomes of the project: The documentation was prepared which involved steps of how to do the integration. Major Learning Outcomes: Exposure to new and advanced IT concepts. Brief Description of working environment, expectations from the company: Work environment was great. The people here are nice and helpful. The mentor too helped in guiding throughout the project period.	2016-17-sem2
Ericsson Global India Pvt. Ltd. , Bangalore	Automating the installation of Openstack services with 2 different softwares. Tools used (Development tools - H/w, S/w): Chef, Ansible, Openstack, opendaylight, openvswitch. Objectives of the project: To install Openstack on different instances for testing a device at Ericsson. Outcomes of the project: I was able to automate the installation. The time and effort needed to be spent on this was reduced. Major Learning Outcomes: Explored different network configurations and understood more about several layer-2 and layer-3 networking devices and how they function. Brief Description of working environment, expectations from the company: The working environment was very good and everyone working around were friendly and helpful. My mentor and manager guided me through the project all along. The company expects their interns to be excited and enthusiastic about their work.	2016-17-sem2

Company	Experience	Year
Ericsson Global India Pvt. Ltd. , Bangalore	Most of my work was on related to Python scripting. I had to use different packages in Python related to Regular expressions, Jenkins and Workbook to work on my project. Tools used (Development tools - H/w, S/w): Jenkins, Python. Objectives of the project: CI dashboard is maintained to take care of the code commits and the gating criteria for the commit in order to keep the mainline code sane and issue free. My project aimed to automate the CI dashboard and get away with manual execution of the commit procedures. This will help in maintaining the code sanity as well as keeping the dashboard updated in real time. All the code commits are handled by software named Jenkins which is used to update the major codes with the changes made by the employees and testing it rigorously for any bugs in the code. So my job was to take the final test results of different jobs from Jenkins and present it on the dashboard. Outcomes of the project: Successfully wrote scripts for presenting the final output of the jobs (success or failure: if failed the specific sub-job that has failed an the reason behind its failure) running on Jenkins and displaying in on the dashboard. Major Learning Outcomes: I learnt Python scripting. Brief Description of working environment, expectations from the company: Working environment was very nice. I didn't have any hard deadlines and got a lot of time to read on the tools and languages on which my main project was on. The company has a great work life balances and the company just expects you to be ready to learn different things.	2016-17-sem2
Ernst & Young Global Delivery Services , Bangalore		2018-19-sem2

Company	Experience	Year
Ernst & Young Global Delivery Services , Bangalore	As a fresher to finance, I started with studying about Derivatives and how they are valued in excel, I studied Black Scholes formula and its applications. I wrote python library for valuation of Swaptions and Caps&Floors. Later I studied on Interest rate models. Applications of stochastic volatility interest rate models, I built a library for SABR model, which is used in valuation of derivatives. I also worked with Derivatives Valuation team, Here I got to work with different derivatives. I had to value these derivatives using EY methodology and other third party sources. I was the direct point of contact with the international clients. Tool used (Development tools - H/w, S/w) : MATLAB, Python, VBA, Excel, @Risk, Bloomberg Terminal, Super Derivatives, Reuturs, Fincad, Numerix Objectives of the project : Valuation of derivatives: Value the derivatives and generate a report on client methodology. Major Learning Outcomes : Finance knowledge, Stochastic Calculus, Programming, Application of pure maths, Derivatives Valuation, Soft skills Improvisation Details of Papers/patents : NA Brief Description of working environment, expectations from the company : The colleagues here are very welcoming, being one of Big 4 companies, the working atmosphere is very professional. The learning opportunities are vast. EY is a very good place for a fresher to grow professionally. My mentors were very supportive and have given me quality projects. They expect interns to deliver for the company, what ever interns do here it should be a value addition for the company. Academic courses relevant to the project : All Maths courses and especially knowledge in Calculus and Statistics is important, C, Data Structures and Algorithms, Finance courses. The work here is a combination of Maths, Finance, Computing, Softskills.	2018-19-sem2
Ernst & Young Global Delivery Services , Bangalore		2019-20-sem2

Company	Experience	Year
Ernst & Young Global Delivery Services , Bangalore	Quantitative Financial Modelling. My Project was to develop and automate the pricing of Asian Basket Options using various models and then compare the simulation based results and benchmark them with the market price. I developed several models like Implied Volatility model, Local Volatility model using Dupire's algorithm and the most important Local Correlation Model. This model can now be used to price the Asian Options of given any maturity tenure. Tool used (Development tools - H/w, S/w) : Python, Excel, Powerpoint Objectives of the project : To Price Asian Options using Various models Major Learning Outcomes : Time Management General Management Networking skills Communication skills Improved Coding skills Details of Papers/patents : Brief Description of working environment, expectations from the company : Work environment at EY is something to definitely talk about. I must thank and appreciate to all the people who've helped me throughout to learn. People are very collaborative and helpful . Organization not only expects us to be technologically advanced but also have an overall good and confident personality. Academic courses relevant to the project : Differential Equations	2019-20-sem2
Ernst & Young Technology , Bangalore		2018-19-sem2
Ernst & Young Technology , Bangalore	Natural language processing based machine intelligence tasks pertaining to some core verticals of the organisation Tool used (Development tools - H/w, S/w) : Azure services, python Objectives of the project : Natural language processing based machine intelligence tasks Major Learning Outcomes : Industry level software development standards Details of Papers/patents : None Brief Description of working environment, expectations from the company : Very easy to go work environment. Good work life balance. Company could provide initial relocation support like flights and initial hotel stay. Academic courses relevant to the project : Machine learning, Neural networks	2018-19-sem2
Espressif Systems , Pune		2018-19-sem2

Company	Experience	Year
Espressif Systems , Pune	ESP-Jumpstart verification of documents and testing of examples. On ESP32 Azure IoT Kit , sensor Mag3110 driver support has been added. NPI (New product Information)application for production line testing of different audio boards. Also customer specific use case and HAL level support added. Tool used (Development tools - H/w, S/w) : ESP32 Dev Kit, ESP32 Lyrat, ESP32 LyraTD msc, ESP32 Azure Iot KIt, ESP-IDF, GitLab. Objectives of the project : To provide support and feature addition for various ESP products Major Learning Outcomes : Learned about peripheral drivers of ESP32, Different Audio Boards, ESP-IDF. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : The work culture at Espressif is very supportive, helpful. It has open door policy. People at Espressif are very approachable. No strictness regarding the work hours. Completing the work only matters. Academic courses relevant to the project : Embedded Systems, Real Time Systems, Software for Embedded Systems	2018-19-sem2
Espressif Systems , Pune	RISC-V is a free and open ISA enabling a new era of processor innovation through open standard collaboration. Born in academia and research, RISC-V ISA delivers a new level of free, extensible software and hardware freedom on architecture, paving the way for the next 50 years of computing design and innovation. I was assigned the task to understand the RISC-V ISA and evaluate an internal RISC-V processor core. Evaluation task mainly comprised of checking that RISC-V core matches the implementation of RISC-V base Integer(I) ISA along with other supported RISC-V extensions like Multiplication(M), Compressed(C), Floating point(F) and custom instruction sets. Tool used (Development tools - H/w, S/w) : Verilator Simulator, GTK waveformviewer Objectives of the project : Evaluation of RISC-V CPU core Major Learning Outcomes : RISC-V Instruction Set architecture Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Academic courses relevant to the project : VLSI Architecture	2018-19-sem2

Company	Experience	Year
Exponentia Data labs	In the beginning of my PS work consist of database creation and extraction of data from Database. The work consists of learning using basic excel commands, SQL, Qlik etc. Of Couse this doesn't took much time to learn. Than the work consists of learning and creating sample dashboard for Qlikview, Qlik sense. After this work consist of creating and manipulating text using R. Learning a new language requires bit of effort in the beginning than it requires regular practice so I was regularly working on learning R basic commands, learning data types, manipulating data. Afterwards The task was given to create Demo dashboards for MFIs i.e Micro Financial Institutions taking the sample case study of AAA Micro Finance. Another task was given to create dashboard of a payment gateway. In this firstly the data quality was assured and based on the data quality further analysis was performed. The size of excel was quite big and system was getting hanged again and again. So on the server Qlik sense QVD was created and this QVD was used again. So Overall experience of PS was quite good in terms of learning that I have got over here. So in short work is based on Business Intelligence and Data Analytics the work was to extracting the data, clean the data, analyze the data and presented it to the client.	2015-16-sem2
Exponentia Data labs	I thank BITS Pilani for giving me this opportunity to explore the industry before even graduating. My PS station is a startup and work culture matches your thoughts on a startup. The projects I have done in PS were mostly based on Business Analytics and Text Analytics. Text Analytics is one major emerging field as we have got vast amount of data in text format and machine learning can be applied to get many beautiful insights hidden. The tools which are majorly used are R and python which contain many useful packages and will make your work easier. I have also worked on Cross sell Analytics which involves a lot of business understanding. We have to learn Customer Behavior and how do we analyze different sets of customers in a different way. I have handled the complete project alone and I am glad to say that I was successful to deliver the clients what they wanted and beyond. They have run a campaign on the basis of our results and they wish to measure the success rate.	2015-16-sem2

Company	Experience	Year
Exponentia Data labs	In the five and a half months I spent at Exponentia Datalabs, Mumbai, I have gotten the opportunity to immerse myself in the start-up culture, learnt how to analyse vast amounts of data by utilizing the BI tools at hand and been under the mentorship of some of the most innovative entrepreneurs in the country (one of them a BITSian himself). What started out as a 2 man army venture a few years back has now reached the final frontiers of data analytics across the globe. And the company only strives to achieve more. The culture within the company is unlike any other, with a blend of professionality and casualness one can only see at a start-up on the brink of success. The hardworking, yet laidback attitude was easily imbibed by us interns as we accomplished task after task allotted to us. For those looking to pursue a career in Data Analytics, this is the place to be... with an added advantage of exposure to the start-up scene. Peer interactions are sure to inspire you to give your best and everyone is ever ready to help out. Also as a side-note, Mumbai as a city, is sure to amaze you if you're not from here, and survival here on your own, prepares you for survival in any city in the world. I dealt mainly with Data Extraction, Data Cleaning, Data Modeling and creating Dashboards for our clients in the domains of Forex, Healthcare, Finance and Outsourcing Services. Basic knowledge of DBMS, using BI tools such as Qlik Sense and QlikView, MySQL, Advanced Excel. The skillsets were acquired on the go. There is always a mentor for help. What was your take back from the PS-II experience – Write a brief note on PS-II experience in terms of new learning, expansion of knowledge base etc. Overall, a very enlightening experience. The start-up, non-hierarchical structure lets you bring a lot to the table as an intern and all inputs are valued. Gives a fair idea about the Data Analytics Sector. Any achievement or any other experience you want to share. Interns are allowed to accompany seniors to client sites, rarely found in MNCs.	2015-16-sem2

Company	Experience	Year
Fiber Link, Bangalore	Comments: I express true gratitude for the contributions made by the students and an understanding that these contributions were critical and exclusive to each individual. Industry mentors had wonderful capacity and the opportunities they gave to our students, helped to build strength and character. I asked students to be proactive in thinking before performance issues develop, I would like to put on record that because of hard work and inter personal skills and efforts that students have put in to make the project to a great success. Appreciate the great organizations, where general willingness to learn did not go unnoticed. I want to take a moment to share an incident, where the student were asked to develop the features that are critical to the customers. They didn't disappointed; they understood highly complex innovations in very short span of time and delivered good quality code. Great Job, it means you've made a difference. Student	2016-17-sem2
Fiber Link, Bangalore	Worked with Google Android for Work to provide enterprise customer with better experience while handling devices that access organizational data. Tools used (Development tools - H/w, S/w): Java, Oracle, Apache, tomcat, git. Objectives of the project: Enhancing customer experience. Outcomes of the project: Laid down the infrastructure for further development. Major Learning Outcomes: Learn major industrial tools in development. Brief Description of working environment, expectations from the company: Working environment and company was good.	2016-17-sem2
Fiber Link, Bangalore	Woked with windows agent team. Mainly Universal Windows Platform developement. Tools used (Development tools - H/w, S/w): Visual Studio, Installshield, Sourcetree, SQL Developer tools, Powershell ISE. Objectives of the project: Unified Endpoint Management-integration of MaaS agent and BigFix agent owned by IBM for a new service offering. Outcomes of the project: Enhancements to MaaS agent complete. Major Learning Outcomes: Learned how a software company works end to end. Brief Description of working environment, expectations from the company: There is no concept of intern projects. Work given will be same as that of FTEs. Can shift teams very easily. No tight deadlines for interns. Ideal for EEE/ENI students who are looking for an IT company. PPO chances are low.	2016-17-sem2

Company	Experience	Year
Fiber Link, Bangalore	MaaS360 is an Enterprise Mobility Management which is of huge demand in the current market with respect to the security they provide to the devices that come into an organization in the form of BYOD. My work in this organization involved learning of Java (Spring Framework), basic Web development (both server side and client side), Oracle Database. Its difficult to understand the frameworks they have been use in the beginning and it takes time to cope with the speed. Objectives of the project: Branding of MaaS360, Localization of Web Portal, Customer Service Outcomes of the project: All the work I did will show and remain in the Product if that provides any motivation. Work will never be boring, redundant and also not easy Major Learning Outcomes: Software Development in SaaS (MaaS360 product) Brief Description of working environment, expectations from the company: Everyone are friendly and treat you as an employee. The work they provide will help you slowly understand the way they work. They are so willing to help and expect us to come back and ask questions.	2016-17-sem2
Fiber Link, Bangalore	Worked as a developer in cloud extender team of MaaS360 adding enhancements to the software and debugging issues. Tools used (Development tools - H/w, S/w): Java - Eclipse, Oracle sql developer, git. Objectives of the project: Enhancements for Cloud Extender Health Check Alerts. Outcomes of the project: Made enhancements for Health Check Alerts ensuring its timely delivery. Brief Description of working environment, expectations from the company: Fiberlink is a good place to work and learn.	2016-17-sem2
Fidelity Investments , Bangalore		2019-20-sem2

Company	Experience	Year
Fidelity Investments , Bangalore	Designed optimum stock trading indicators combining technical analysis tools with topic modelling on news articles and SEC fillings to get additional fundamental analysis indicators. This helps to correlate the returns of a stock with the returns of stocks in a similar industry and the occurrence of news articles on the web. This project was performed by combining a number of machine learning models with natural language processing functions. Tool used (Development tools - H/w, S/w) : Working in python, the following libraries were used : 1. pandas 2. sklearn 3. matplotlib 4. tf-idf vectorizer Objectives of the project : To integrate topic modelling of news articles on tech companies with their stock market returns to create an indicator of stock price movement Major Learning Outcomes : 1.Machine Learning models such as linear regression, logarithmic regression and random forest regression 2. Vectorizers such as tf-idf vectorizer 3. Natural language processing Details of Papers/patents : Brief Description of working environment, expectations from the company : The company employee experience is extremely friendly where all team members are willing to help out most of the time. Team outings are regular and company sponsored which helps to increase employee bonding and a sense of trust. Academic courses relevant to the project : None	2019-20-sem2
Fidelity Investments , Bangalore	Worked here to build a pipeline for creating word embedding from live chat data generated from customers, extracting key features by dimensionality reduction and fitting it into an ML model for accuracy evaluation. Tool used (Development tools - H/w, S/w) : Hive, NLP models from gensim, xgboost, Python3 and various python3 libraries Objectives of the project : Automation of chat featurization and dimensionality reduction Major Learning Outcomes : NLP, AI Details of Papers/patents : Brief Description of working environment, expectations from the company : Flexible working hours, Manager and mentors were very supportive. No heavy workload and they only expected us to finish the work before deadline. Academic courses relevant to the project : NNFL, Machine Learning	2019-20-sem2
Fidelity Investments , Chennai		2019-20-sem2

Company	Experience	Year
Fidelity Investments , Chennai	Our problem statement was to process raw log files and predict the health of the server at any given future instant of time. We used MLP classifier model for the prediction. Tool used (Development tools - H/w, S/w) : Python, Anaconda Spyder IDE Objectives of the project : Oracle Business Intelligence Server Log Analyzer and Health Predictor Major Learning Outcomes : Learnt how to implement few Machine learning Models. Details of Papers/patents : Brief Description of working environment, expectations from the company : Work life balance is great. Ample time given to learn. Company provides accommodation for the first two weeks. We were given transport facility too through out the internship. Academic courses relevant to the project : Information retrieval, Data Mining, Neural Networks and Fuzzy Logic, Machine learning	2019-20-sem2
Flipkart , Bangalore		2019-20-sem2
Flipkart , Bangalore	Worked on sales forecasting problem with the data science team at Flipkart. Surveyed and researched multiple econometrics and deep learning models for high-dimension product-wise sales forecasting with different static and timedependent inputs such as offers and events. Tool used (Development tools - H/w, S/w) : Python, R, Tensorflow, Shiny, Shell, SQL, Hive Objectives of the project : National Day-level Sales Forecasting Major Learning Outcomes : Learned to analyze and understand high-dimension data, gained insights of current research in time-series forecasting, and tuning deep learning architectures to practical use cases Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Excellent working environment and culture, good guidance from mentors. Regular sync-ups to keep track of progress and complete ownership of the project Academic courses relevant to the project : Neural Networks and Fuzzy Logic	2019-20-sem2
Flipkart Analytics , Bangalore		2018-19-sem2

Company	Experience	Year
Flipkart Analytics , Bangalore	Worked on customers' change in perception on NPS(survey), percentage of customers who changed their perception, studying their order experiences in various categories, finding out reasons for their change in response and magnitude of those reasons. Tool used (Development tools - H/w, S/w) : SQL, R Studio, MS Office Objectives of the project : Figuring out speed sensitive customers among those who filled the survey. Major Learning Outcomes : Analyzing data and getting inferences from data Details of Papers/patents : Brief Description of working environment, expectations from the company : Excellent and flexible working culture, very friendly and helpful people around. The company expects you to have strong command and ownership on your project, confident about the work that you're doing and should have good communication skills. Academic courses relevant to the project : No courses are relevant to this project	2018-19-sem2
Flipkart Analytics , Bangalore	Tool used (Development tools - H/w, S/w) : Hardware - Macbook Pro, Software - Java, Spring Boot, Gradle, Maven, Redis, Mysql, Jenkins, IntelliJ Idea IDE Objectives of the project : Creating a simulation program to allow for testing of the impact of various optimization algorithms on planning of shipment logistics. Major Learning Outcomes : Full stack programming, microservice architecture, project management Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Object Oriented Programming, Data Structures and Algorithms	2018-19-sem2
Flipkart Analytics , Bangalore	Developing Pricing Framework for life-cycle based pricing for unhealthy inventory Tool used (Development tools - H/w, S/w) : SQL, R Studio, excel Objectives of the project : Flushing out old inventory Major Learning Outcomes : Proficiency in data analysis tools, development of business understanding Details of Papers/patents : None Brief Description of working environment, expectations from the company : Cooperative, friendly, flexible, good work life balance Academic courses relevant to the project : None	2018-19-sem2
Flipkart Internet Services Pvt. Ltd , Bangalore		2018-19-sem2

Company	Experience	Year
Flipkart Internet Services Pvt. Ltd , Bangalore	Worked on 2 projects: 1. Built an Entity Reconciliation Tool to catch systemic drops of data in ekart's ecosystem. 2. Implemented Map Matching following a reference paper, and applied it on Flipkart's last mile delivery data Tool used (Development tools - H/w, S/w) : Java, Python Objectives of the project : Allow systemic reconciliation of entities in ekart, and build up the map matching logic to be used by different teams Major Learning Outcomes : 1. Professional Software Development, from writing the code, deployment, maintenance and onboarding customers. 2. HMMs, and how to structure a Data Science project Details of Papers/patents : Brief Description of working environment, expectations from the company : Great working environment, with a focus on delivery over mere presence in office. You're expected to be a self starter, though you will receive plenty of guidance technically, especially if you've never coded as a developer before. The expectations are set in consultation, and were never overwhelming. Overall a great place to work, with lots of other activities! Academic courses relevant to the project : OOP, ML	2018-19-sem2
Flipkart Internet Services Pvt. Ltd , Bangalore	Implemented a model health monitoring system which takes in monthly data and computes stability indexes (PSI & CSI) to flag features unsafe for the model. Tool used (Development tools - H/w, S/w) : Spark, Hive, Python, Scala Objectives of the project : To create an automatic end-to-end model monitoring system. Major Learning Outcomes : Corporate exposure. Significance of effective planning, execution and testing. Working on various tools and technologies. Details of Papers/patents : None Brief Description of working environment, expectations from the company : Friendly work environment. Very good platform for learning, specially for fresher Academic courses relevant to the project : None	2018-19-sem2

Company	Experience	Year
Flipkart Internet Services Pvt. Ltd , Bangalore	Developed an end to end flow for "Product Migration" as part of the Catalog Core (MDM) Team of Flipkart. There are currently over 4000 categories which are shown to the seller while enlisting a product on Flipkart. One of the major errors caused today is attributed to choosing an incorrect category at the time of creation due to various reasons which leads to rejection of the product. Migration is also required in case of changes in category definitions over time. Migrating a Product from one category to another is currently done manually through excel sheets and uploading the product after changing the category in the Legacy Console which takes lot of time. Tool used (Development tools - H/w, S/w) : Java, Maven, Dropwizard, Guice, Mockito, OrientDB Objectives of the project : Create a tool to help users migrate products from one category to another by mapping the common attributes and enriching the incomplete information Major Learning Outcomes : Backend Web Development Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Object Oriented Programming, Data Structures & Algorithms	2018-19-sem2
Flipkart Internet Services Pvt. Ltd., Bangalore	As part of my Practice School 2 I interned with Flipkart in Bangalore. I arrived in Bangalore a week before the internship date to start looking for accommodation near the office and found a PG at Marathali which was around 5 kilometers from my office. The first thing which catches your attention is the amazing office architecture. Since I had already worked in a startup milieu before joining BITS I was expecting regular office cubicles with perhaps some frills but when I entered the office I was bedazzled by its exquisiteness, every floor had its own theme with marvelous conference rooms, delightful common areas and comfortable seating. Every small thing has been taken care of with utmost attention, from the placement of reprographics to the arrangement of the desks. The first day was a little overwhelming with a lot of people trying to befriend me and asking questions to which I repeated my bio-data like the first day of college. As a fledgling intern my greatest endeavor was to lean the tools and technologies being used at Flipkart. Since my prior experience was in .Net technologies I was not so comfortable in working with Java and other open source related tools. This continued for a couple of days while my mentor, manager and team members' brain stormed on my project. I was usually part of the discussion physically but	2015-16-sem2

Company	Experience	Year
	couldn't really participate since I wasn't aware of the domain, the tools and the technologies being used. For the most part of the first two months I was participating in requirement meetings, design discussions and skill development tutorials without writing any code. At one point, I remember consulting my mentor on the fact that whether I would be writing any code during the internship to which he said once you start you'll be writing code till your last day – he was correct. Once the development started all my office hours were spent writing code & I was able to finish my project with great help from my mentor, manager and team members. Looking back, I feel it was a right decision to choose Flipkart, Bangalore as the PS-2 destination. It was the first time I was living alone outside my home (Pilani was always a home to me as well), I learnt a lot about work as well as about life. My fellow interns were friendly, my team was affable and my mentor was empathetic. Initially there was not much work but when everything was finalized (which took around 2 months) I was given interesting work. Commuting on weekdays is always an issue in Bangalore while weekends were amazing with my friends & colleagues. I did not want to work in Bangalore hence did not apply for a PPO. My journey with Flipkart has been an amazing experience and it would be a fond memory for the rest of my life.	

Company	Experience	Year
Flipkart Internet Services Pvt. Ltd., Bangalore	Overall work has been satisfying. The interns were allotted into mainly two teams. One is "Seller Platform" while the other is the "CustomerService". My team is Customer-Service where all the issues from the customer both in preorder and postorder are handled. Various sub-teams are present which work on telephony, machine-learning , NLP are present. Learning and work-culture is very good. Interaction within the team is lively and you can approach to anyone in your team for queries. I have learned how the whole customer call centre works in an e-commerce platform, and also the whole telephony procedure. (like the CTI - Computer Telephony Integration) Here, there is a chance to learn a lot of new concepts and there are no restrictions in code structure, but many of the teams use Java only. The timings are flexible and you can work according to the timings of your team. The work stress for interns is a bit less but for full timers, they are tend to work on weekends also, but that even depends on the team. You are allowed to work on the Prod environment directly, this kind of exposure will not be obtained in any other company. you are allowed to work on many topics of your interest, apart from you work. Various learning sessions are also conducted by the company for the academic improvement of the employees, where interns can also attend them. Overall, very good working environment and best place to learn a lot of new concepts.	2015-16-sem2

Company	Experience	Year
Flipkart Internet Services Pvt. Ltd., Bangalore	Project involved analyzing customer complaints by mining frequently occurring patterns in complaints, grouping complaints based on issue or other parameters, providing metrics of number of times team's resources are used by clients and call center agents. To handle huge size of data(3050GB), parallel variants of algorithms were used. Along with solving the problem, picked up elegant coding styles in JAVA like Google Guice and caching when required(InMemory vs Centralised).Technology Stack: Dropwizard, Apache Spark, Spark Mlib, Spark SQL, Codehale Metrics. How did I acquire the skills? I went through documentation and online resources while picking up concepts. If this does not work, "ask" team members/devchatter(ministack overflow at Flipkart)/walk up to anyone and discuss your problem. It's as simple as that! Take back from PS? I would like to emphasize on elegant coding style once more. This is what differentiates student from an industry person. Read about "System Design". Most of the companies like Linkedin, Google, Facebook, Quora, Square etc open source its design via engineering blogs. Give it a read. It's worth your time.	2015-16-sem2
Flipkart Internet Services Pvt. Ltd., Bangalore	The overall experience during my five months' internship at Flipkart Internet Pvt Ltd, Bangalore was great. I was not just well trained technically but was also exposed to the high working standards of the company, the very flexible and optimized working conditions, highly qualified and experienced employees (including top level managers) with whom I had a constant interaction at daily standup meetings and could share my training issues as well as indulge in planning discussions for upcoming tools. The working hours were flexible which were around 8hrs from Monday to Friday. I was working in "NLPTech" team in the Customer Service vertical of Flipkart. My team was involved in the development of projects like social media sentiment analysis, using Machine Learning techniques to identify patterns in Big Data, developing CustomerAgent Chat for an enriched user experience, etc. My project dealt with Supervised Classification of Product Reviews given by Flipkart's customers to identify if the review was a complaint and to create an incident for each such actionable review. The objective was to create a tool which facilitates Natural Language Processing of review data and classification of reviews into Actionable and NonActionable reviews using Machine Learning Algorithms. You are not expected to know	2015-16-sem2

Company	Experience	Year
	any software beforehand and sufficient time is provided to learn the prerequisites for the project. I had weekly review meeting with my mentor and manager which were very important for the feedback and continuous improvement of my performance. All the employees were very friendly and were ever ready to help me all the possible ways. I even had access to the planning meetings of the whole team where my suggestions were always welcomed. The company also organized team outings full of teambuilding activities which added more to the experience. So I would say this is a very huge opportunity which will not just add to your resume but also help you hone your soft skills. While implementing my project, I learned Maven in Dropwizard, used Morphia client for Mongodb and learned to use a wide variety of web technologies including HTML, CSS, Javascript, JQuery, Angularjs, etc. The Machine Learning techniques I learned during the course of my project are listed below: 1. Supervised Learning Algorithms: Naive Bayes, Bernoulli's Naive Bayes, SVM, Linear SVC (onevsall technique), Feature selection and extraction, Analysis of ML algorithms on the basis of precision, recall, accuracy metrics and tradeoff between precision and recall, Calculation of Bias, variance, regularization, Model selection, error metrics for skewed classes, Feature set selection for anomaly detection. I completed the Machine Learning course offered by Prof. Andrew Ng, Stanford University through Coursera to facilitate the process of learning ML techniques and their usecases for the project. Overall, it was a very enriching experience as it helped me widen my knowledge base and awareness of the working of ecommerce business.	

Company	Experience	Year
Flipkart Internet Services Pvt. Ltd., Bangalore	My PS-II station is Flipkart, Bangalore. I have been working here as a part of Seller-Platform team. Past five months have been an amazing Learning opportunity for me. I was introduced to various programming concepts and was provided with a platform to implement those concepts. Major chunk of my project involved development In the Java Language. For the implementation of the project, I had to Learn various concepts like dependency Injection, setting up config, auditing, UI development. middleware concepts, Restful services, Object relational mapping, etc. Apart from learning various software related concepts, I have also realized how working in industry is different from academic projects. In industry there is a lot of emphasis on correcting the corner cases associated with a given program. Also, the programs are subjected to large number of stress tests so as to make them as bug-proof and future-proof as possible. The programs are also reviewed by various people to reduce possibility of bugs. Moreover, even while writing a program, a lot of emphasis is laid on making it easy to read, understand and manage. These kinds of programming practices are very typical to industry. Practice School experience has also helped us become familiar with the essential attitude and the working environment of companies. We also got an opportunity to interact with and learn from many people who already have a lot of experience of working in industry. The constructive feedback from them has helped us in developing new skills as well as refining other skills. Hence Practice school has provided us ample opportunity to implement the techniques learnt in classroom as well as learn new concepts. I sincerely believe that due to this hands-on experience we are now better prepared for the future and experienced gained here will help in smoother-transition from academics and I am really grateful for this opportunity.	2015-16-sem2
Futures First - Financial Market & Research (Quant) ,	Kolkata	2018-19-sem2

Company	Experience	Year
Futures First - Financial Market & Research (Quant) ,	Development of Automated Trading System using multiple alphas Data Collection: extracting data at the micro-structure level of the market and qualitatively assign states to the data. Execution: Once we had the states of the data for each of the individual strategies, each of the alphas was independently implemented, and tested over multiple contracts on in sample data. Feedback: The results of the individual alphas were put into context with each other and combined with human insight, designed a higher order logic to integrate the individual alphas, as well as designed/extracted new data parameters to make up for logic gaps, fallacies of the system, or new ideas to be implemented, gained from the feedback process. Efficiency: Code had to be integrated with every new strategy to have the best efficiency possible in terms of amount of computations carried out and the delay from signal to execution was minimized. Monitoring: The alphas and logic has to be constantly monitored for decay, fallacies in logic as they come to light with new market conditions that system hasn't been tested over. This would again lead to changes in the logic and/or execution Tool used (Development tools - H/w, S/w) : Software: Sierra Charts Objectives of the project : Automated Trading Sytem Major Learning Outcomes : Application of statistics to establish context in real-life situations, in this case, the situation of price movements in financial markets Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is great in the sense of independence, responsibilities assigned and opportunities provided if self-started. The work hours may be hectic for some, 11 hours. Unique fast-paced environment of World Markets, that cannot be matched anywhere. Academic courses relevant to the project : Applied Stochastic Processes, Probability and Statistics, Statistical Inference and Techniques, Theory of Computation, Mathematics 2	2018-19-sem2

Company	Experience	Year
Futures First - Financial Market & Research (Quant) ,	Development of a JAVA based algorithm to decipher the longest chain of outrights, spreads and butterflies allocated by the Intercontinental Exchange during trading in Euribor Futures Market. Development of a Live User Interface for the conversion of Brazilian News to English using Python, Juypter Notebooks, Thomson Reuters Eikon API and Google Translate API. Tool used (Development tools - H/w, S/w) : JAVA, Python, Advanced MS-Excel, Thomson Reuters Eikon API, Google Translate API Objectives of the project : The project aimed to decipher the longest path followed by the Exchange in order to maximize profits during trades. Major Learning Outcomes : Economic factors affecting Euribor, USA and Canadian Markets. Hands on experience on working with costly software's like Trading Technology and Thomson Reuters. Lectures on Data Analytics and Financial Markets were very useful. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment was good. Work hours were fixed from 12 pm to 10 pm. Work load was heavy. Immense financial learning opportunities. Academic courses relevant to the project : Principles of Economics Data Structures and Algorithms Development Theories	2018-19-sem2
Futures First Info Services Pvt Ltd , Hyderabad		2019-20-sem2
Futures First Info Services Pvt Ltd , Hyderabad	I worked as a Research Analyst intern in the Capital Markets division. I was involved in the designing of tools that traders can use for better execution of their trades. I had access to a Reuters Market Terminal from which I would extract live or historical market data and work with traders to generate certain specific functionalities which would be presented in the form of an Excel sheet. Tool used (Development tools - H/w, S/w) : Reuters Market Terminal, Trading Technologies, Microsoft Excel Objectives of the project : To provide traders with instruments and tools with functionalities that assist them in the implementation of their trades. Major Learning Outcomes : Analysis of market data Details of Papers/patents : Brief Description of working environment, expectations from the company : Friendly and helpful work environment. Academic courses relevant to the project : DRM, FRAM	2019-20-sem2
Futures First Info Services Pvt. Ltd., , Jaipur		2019-20-sem2

Company	Experience	Year
Futures First Info Services Pvt. Ltd., , Jaipur	Made web application for analysing historical data in form of charts and tables and for identifying working technical indicators, if any for various derivative products being traded in the company. Applications were made using R studio and R shiny majorly. Data was extracted from Bloomberg terminal and cleansed before using further. We were also given TT simulator for week to trade in Euro Bunds and Gilts to get an idea about the trading experience. Tool used (Development tools - H/w, S/w) : R Studio R Shiny Trading Technologies Excel Bloomberg Reuters Objectives of the project : To substitute use of costly softwares such as Rueters for analysing charts and patterns for live data using R. Major Learning Outcomes : 1) Trading Experience 2) App development 3)Technical Analysis Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : DRM SAPM FINANCIAL ENGINEERING BAV	2019-20-sem2
Futures First Info Services Pvt. Ltd., , Jaipur	Worked in R to develop analytical tools for quantitative analysis of different derivatives. The work included understanding the problems faced by traders during market research and product analysis , providing them with proper solution in the form of an app.The main motive of the project was to develop customised analytical tools to minimise the dependence of company on commercial apps and websites. Tool used (Development tools - H/w, S/w) : R , Excel VBA and TT Platform Objectives of the project : To develop quantitative analysis tools using R. Major Learning Outcomes : Data Analytics, App Development in R,User Interface development in R Shiny Details of Papers/patents : Brief Description of working environment, expectations from the company : Futures first is one of the most result driven Proprietary Trading firms in India.The working environment is open , demanding, disciplined and focused work is expected.The management is very approachable and other employees are friendly. Academic courses relevant to the project : Probability & Statistics and Derivatives & Risk Management	2019-20-sem2
Futures First- Financial Market & Research (Quant) ,	Gurgaon Student	2018-19-sem2
Futures First- Financial Market & Research (Quant) ,	During my internship at Futures First, I had the opportunity to work on multiple projects. As Futures First trades futures of energy, commodities and fixed income they need tools to	2018-19-sem2

Company	Experience	Year
	analyze the markets and make quick decisions. To improve their decision making process by adding the layer of data analysis, they were eager to develop models based on market data like open interest and net positioning and machine learning. Of all the completed projects, I would like to describe two projects - Rollover analysis for commodities and energy and Back-testing of candlestick patterns. Tool used (Development tools - H/w, S/w) : Python, scikit, pandas, Excel, VBA Objectives of the project : Objective of Rollover analysis for commodities and energy was to use modelling techniques to help estimate next month's spread features like mean value, range and direction of move of spread prices. Objective for Back-testing of candlestick patterns was to test how effective reversal patterns (hammer, shooting star, engulfing and morning/evening star) are by quantifying the amount of retracement. Major Learning Outcomes : The main learning outcome was to understand the market dynamics for commodities and energy. Interaction with the energy researcher helped in understanding the supply and demand dynamics of the energy markets. Interaction with commodities researcher helped me realize the role of market positioning to predict future moves. Also I learnt about sources for obtaining information about the commodities market like Commodities Futures Trading Commission's CIT report and the US Dept of Agriculture website. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : The company structure was very flat and the management interacted with the traders and researchers regularly. There were around 100 traders at all times on the trading floor. The constant interaction between researchers and traders helped them clarify and formulate the trading signals. There were two types of interns - traders and researchers. The trading interns were given the opportunity to trade live with $2000 and the research interns used to sit beside senior researchers and learn from them. The work environment offered by the company is conducive to learning for the student, enabling them to achieve their potential. The company should continue to provide such an environment. Academic courses relevant to the project : Object Oriented Programming, Data Structures and Algorithms, Derivatives and Risk Management, Security Analysis and Portfolio Management, Machine Learning	

Company	Experience	Year
Gabriel India Ltd , Pune	Student	2019-20-sem2

Company	Experience	Year
Gabriel India Ltd , Pune	Gabriel India Ltd. a leading shock absorber manufacturing company. They design and develop new shocks depending upon the customer (most of the OEMs). In development process, prorotypes were built and tested to make sure all the customer requirements are statisfied. These prototypes were built in a way such that subassemblies can be varied for producing desirable Damping force in the damper (Shock absorber). Piston sub-assembly is one of such sub-assemblies. In Piston sub-assembly, valve stacks will be located on both sides. These are made up of shim discs, orifice discs. In development process, during testing phase, Damping force is generated by varying valve stacks, etc... that too in trail and error fashion. Because of this time taken to fine tune damper will be long. To reduce this time taking process, they initiated an application such that damping force can be generated for a given set of valve stack properties with a fixed shock absorber outline. In this application, Stage-I : Indentification deflection of valve stack with respective to velocity of piston rod in damper. Stage-II : Keeping deflection of stack as input, Stiffness of the stack can be calculated Stage-III: Note: Damping force is nothing but resisting force offered by shim stack to oil flowing from one chamber to another chamber. Keeping stiffness as input, Damping force is calculated. A trend is generated for Damping force vs Velocity of piston rod. This prediction of Damping force w.r.t. velocity of piston will make the NPD (new Product Development) team take less time for appropriate valve stack. We developed a MATLAB GUI with references from Ansys fluent work, which will predict the deflection of the stack. Tool used (Development tools - H/w, S/w) : MATLAB, Ansys (Structural & Fluent), Excel sheets, CATIA V5 Objectives of the project : Prediction of deflection of pyramid shim stack Major Learning Outcomes : 1. Non-linear deflection of Annular plates. 2. In-depth MATLAB experience. 3. Hands on experience in Ansys structural as well as Ansys flent. 4. Full scale development of GUI from scratch. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : 1. Mechanics of Solids 2. Advanced Mechanics of solids 3. Kinematics and Dynamics of Machines 4. Mechanical Vibrations 5. Production Techniques I & II 6. Machine Design and Drawing 7. Fluid Mechanics 8. Non-linear Vibrations 9. Numerical Fluid Flow and	2019-20-sem2

Company	Experience	Year
Gabriel India Ltd , Pune	Completely core mechanical research work. Had to formulate a numerical method for prediction of damping offered by a specific arrangement of valves inside a twin tube hydraulic shock absorber which used various types of physics mainly CFD, FEM and Solid Mechanics. Also given some suggestions for Energy Harvesting regenerative feedback system to retain some energy lost by hysteretic losses. Tool used (Development tools - H/w, S/w) : ANSYS, MATLAB, CREO, HYPERMESH, EXCEL Objectives of the project : Prediction of a Mathematical model to reduce the time taken in Product Development. Major Learning Outcomes : Learnt Fluid-Structure Interactions, Machine Learning and various Softwares like CATIA, MATLAB, HYPERMESH. Also learnt the skills required in Project Management. Details of Papers/patents : None Brief Description of working environment, expectations from the company : The working environment in my department (R&D) was pretty good. People were cheerful and the work culture was motivating. Academic courses relevant to the project : Advance Mechsol, FEM, NumTech, CFD, Fluid Mechanics, Applied Thermo, MDD	2019-20-sem2

Company	Experience	Year
GE Digital, Bangalore	Side Projects: Worked on setting up Docker on corporate environment and uploading docker images on cloud foundry platform. Worked with setting up Predix machine for collection sensor data. Main Project: Worked with sensitive sensor data. Aim was to mask sensitive information using various data masking techniques. Benchmarked masking techniques using sequential as well as parallel programming. Create a map reduce program to time various phases of the process, namely, 1) retrieve data 2) identify sensitive information 3) mask data 4) store data. Tools used (Development tools - H/w, S/w): Python, Java, Predix, Hadoop, PostgreSQL. Objectives of the project: Obfuscation of sensitive data sensor data, to enable sharing of data and preventing misuse by end user. Outcomes of the project: If the end user need security then truncation or mask out is more suitable. If the end user need to preserve original data then encryption is suitable. Major Learning Outcomes: Compared various data masking techniques Truncation, Mask out, Shuffle and encryption. Established that encryption takes maximum time, but preserves the original data. Whereas, other techniques are more secure as they don't expose the original data. Shuffling is less secure since the original data can still be extracted from shuffled data. Brief Description of working environment, expectations from the company: Good working environment. Since Digital is a new branch of GE there are many opportunities to learn and grow. There are many exciting projects going on at GE Digital. Conversion rate was not very high, since they hire a lot of interns. You may not necessarily get into a good team, but the HRs are quite helpful in case you need a change in work. The young crowd is less at GE, so some days get really dull. Otherwise, a good place to work.	2016-17-sem2

Company	Experience	Year
GE Digital, Bangalore	The projects involved automation of the processes that mostly do not require much human intervention, and these processes are mostly of the Finance team of the Global Operations business of GE Tools used (Development tools - H/w, S/w): Python, Predix, UiPath. Objectives of the project: To reduce the human effort using the state of art technologies and tools and contribute towards the digitalization of the company. Outcomes of the project: A one click application which performs the same and even more advanced tasks than the humans, and thus automating the system. Major Learning Outcomes: Exposure to various technical tools and also understanding the corporate culture of a well established company. Brief Description of working environment, expectations from the company: GE is a 125 year old company with various businesses, and the office here consists of IT employees from these businesses put under the umbrella of GE Digital. The vision of the company is to make GE Digital one of the top most in the IT Industry, and the working environment is established in order to achieve this. As an intern, a good idea of the corporate culture and the transformation into a Digital Company is obtained, and helps in the overall development of the student.	2016-17-sem2
GE Digital, Bangalore	Datawarehousing. Tools used (Development tools - H/w, S/w): Golang, Nodejs, Redshift and Presto. Objectives of the project: Datawarehouse for pRedix. Outcomes of the project: Datawarehouse for pRedix. Major Learning Outcomes: A lot. Brief Description of working environment, expectations from the company: Very good culture.	2016-17-sem2
Genpact , Bangalore		2018-19-sem2

Company	Experience	Year
Genpact , Bangalore	Objective of the project was to do customer segmentation based on the payment term, location, frequency of purchase and other features of the customer. Algorithms used for clustering of the customers were K-Means, K-Modes and KMediods. Tool used (Development tools - H/w, S/w) : Python was used to implement the algorithms Objectives of the project : To do customer segmentation Major Learning Outcomes : Define customer based on their payment, monetary values, frequency and other features to know whether the customer is going to churn or is going to be loyal to the client. Details of Papers/patents : Nil Brief Description of working environment, expectations from the company : Working environment of Genpact is very employee friendly and senior Management is really helpful in terms of guidance and mentorship. Academic courses relevant to the project : Quantitative Method, Consumer Behavior and Project Management	2018-19-sem2
Genpact , Bangalore	Performed various analysis using different algorithms which helped in formulating strategies and increasing business profitability plus efficiency. Tool used (Development tools - H/w, S/w) : Python, neo4j, sql, cql Objectives of the project : Uncover new sources of insights which helps client in winning the race. Analyze the paradise papers data to find the potential links between officers and entities. Major Learning Outcomes : Learned proper approach to analysis and also lewrned how various algorithms can be used in real time projects. Details of Papers/patents : Brief Description of working environment, expectations from the company : It's very good for Data Science interested students. Academic courses relevant to the project : Data science, Analysis	2018-19-sem2
Genpact , Bangalore		2019-20-sem2

Company	Experience	Year
Genpact , Bangalore	Created a Ticket Management systems to manage all tickets of a client company. Tool used (Development tools - H/w, S/w) : Django, python , html, css, bootstrap Objectives of the project : to make a fully functioning django app for to manage all tickets(complaints) Major Learning Outcomes : quite a good learning experience. I learned python, Django. beside I also learnt to utilise html to full extent. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is quite good. There is a good chance that you will land some good project in R or python or some data science(machine learning) project. Academic courses relevant to the project : Data structures and algorithm, Machine Learning.	2019-20-sem2
Genpact , Bangalore	There are deployed machine learning pipelines in a dashboard meant for pharmaceutical companies. In addition to those services we need the entity extractors which will extract labeled words from the customer data to supply useful information to the clients. Research had been conducted for optimal entity extraction pipeline to be integrated with the dashboard but to make the clients understand the importance and reason behind the machine learning models' predictions, we need to develop a pipeline which accepts the models' predictions on data and provides a simplified visual explanation of the factors or indicators behind those explanations. Tool used (Development tools - H/w, S/w) : Python, LIME, SHAP, Keras, Doccano, Spacy Objectives of the project : Implementing Named Entity Recognition and Model Interpretation on Medical Data Major Learning Outcomes : Learned - Preparing training data, data pre-processing, implementing entity extraction pipelines and interpreting their results. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Great working environment, supporting mentors and no deadline pressure. Academic courses relevant to the project : BITS F464 Machine Learning, CS F320 Foundations of Data Science, CS F407 Artificial Intelligence	2019-20-sem2

Company	Experience	Year
Genpact , Bangalore	Learnt ML, Deep Learning and Reinforcement Learning from different online resources in the first 2 months. For the given combination of problem and dataset, I developed an RL algorithm that increased efficiency by more than 750% from the deterministic Dynamic Programming solution. I was also given the opportunity to deliver 2+ hours of RL Lectures every week to a distinguished team of employees including the AVP (Data Science head). Tool used (Development tools - H/w, S/w) : OpenAI (made custom environment), explored DRL algos from Google DeepMind/Dopamine. Objectives of the project : Develop an efficient, customizable and generalized solution for space utilization using an optimal selection of products to maximize revenue. Major Learning Outcomes : Went through a lot of self-learning of most nascent and exciting field of Reinforcement Learning, read many cutting-edge research papers. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Environment is just great, no hierarchical opacity, direct and daily involvement with multiple AVPs in my case. Lots of space and time to learn things on your own. Its a good, workplace with minimal toxicity and pressure. Lots of cutting-edge AI projects (mostly in CV and NLP). Academic courses relevant to the project : ML, AI, DSA (I did mostly Dynamic Programming to compare and benchmark).	2019-20-sem2
Genpact , Bangalore	It was a Machine Learning Project which involved object recognition followed by sentiment analysis. It was implemented on poster and video ads so that to analyse the impact the words and other attributes creates. Tool used (Development tools - H/w, S/w) : Since its a ML based project, Python was majorly used. Keras, Tensorflow, Pytesseract were the libraries used. Objectives of the project : To design effective ad campaigns for the companies Major Learning Outcomes : The learning outcomes includes: 1. Machine Learning and deep learning basic knowledge 2. Computer Vision 3. Image Recognition. 4. Sentiment Analysis Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Machine Learning, Digital Image Processing	2019-20-sem2

Company	Experience	Year
Genpact , Bangalore	Good exposure in supply chain management , also being a service based company we could foresee the whole supply chain of Kraft Heinz from industrial point of view. Projects were good and it helped a lot in the long run. Tool used (Development tools - H/w, S/w) : Excel, Excel VBA, Python, JDA Objectives of the project : Optimisation of truck loads, Improvement in direct shipment Major Learning Outcomes : Applying optimisation techniques in real life and analysing data Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment was very good. People around us were friendly and easily approachable.The learning that we get from the experienced people around was quite good Academic courses relevant to the project : Optimisation Techniques, Fundamentals of fin & accounting, Supply Chain Management, Sustainable Manufacturing, Lean Manufacturing, Math 1,2,3 and Probability and Statistics, Computer Programming	2019-20-sem2
Genpact , Bangalore	E Detailing/Digital Detailing is defined as the use of electronic and interactive media that facilitates sales representatives on sales calls with Health Care Professionals(HCPs). This is now a well established method of increasing pharmaceutical company efficiency in customer engagement, hence helping to better analyse business performance. Through data management and data analytics, a Digital Detailing tool has been developed in R Shiny. From the given database, which includes data about the eSales calls made by sales reps to HCPs, this tool analyses all the Key Performance Indicators(KPIs) . The tool then helps to understand the significance of the KPIs by placing them in a visual context i.e., in the form of various charts and graphs. Tool used (Development tools - H/w, S/w) : Rstudio, MsExcel, MySQL Objectives of the project : Develop a digital detailing tool for a global pharmaceutical company for the analysis of reachof eSales activity Major Learning Outcomes : Healthcare Domain, Data Analytics Languages (R, SQL) Details of Papers/patents : Brief Description of working environment, expectations from the company : Approachable teammates Academic courses relevant to the project : Pharmacoeconomics, Pharmaceutical Management and Quality Control, C Programming	2019-20-sem2

Company	Experience	Year
Genpact , Bangalore	The complexity of managing projects has been increasing day by day. Quick browsing through the changes over past one decade tells us how fast the "Complexity" of managing projects has been changing. Various factors contributing and will continue for next one decade to name few, as, shortening product development cycles, changing customer expectations, exponentially increasing usage of internet as well as a greater number of millennial in the project teams. We believe, one of the ways to manage this complexity and the need of changing world, is using digitization. The digitization of Project Development phases will provide all synchronized database available to each member appropriately and same can be used for Managerial decision making. Building Analytics on this database, Risks affecting Project Performance Parameters – Time, Cost, and Quality can be effectively predicted and controlled. In addition, status will be available for each project to individual project teams whereas Project Dashboard will provide bigger picture for managerial decisions on Strategies & Organizational Priorities. Because of its real-time nature, it can be available across the world at the same time providing a common platform to network and common language to interact. Tool used (Development tools - H/w, S/w) : R, SHINY, SQL Objectives of the project : Create a platform for 1)Keeping track of projects distributed 2)Workload management and distribution 3)Tracking status and time for different projects 4)Visualizing the data entered Storing the project histories Major Learning Outcomes : R, SHINY, SQL Details of Papers/patents : Brief Description of working environment, expectations from the company : Good mentor, good project, good working environment with flexible timings. They just expect you to be sincere and finish the work before the deadline. They'll train you if you are not familiar with the working tools. Academic courses relevant to the project : NA	2019-20-sem2

Company	Experience	Year
Genpact , Bangalore	E Detailing/Digital Detailing is defined as the use of electronic and interactive media that facilitates sales representatives on sales calls with Health Care Professionals(HCPs). This is now a well established method of increasing pharmaceutical company efficiency in customer engagement, hence helping to better analyse business performance. Through data management and data analytics, a Digital Detailing tool has been developed in R Shiny. From the given database, which includes data about the eSales calls made by sales reps to HCPs, this tool analyses all the Key Performance Indicators(KPIs) . The tool then helps to understand the significance of the KPIs by placing them in a visual context i.e., in the form of various charts and graphs. Tool used (Development tools - H/w, S/w) : Excel, SQL, R Objectives of the project : Design and develop a digital detailing tool for a global pharmaceutical company in the analysis of reach of eSales activities Major Learning Outcomes : 1. Obtained knowledge about how the pharmaceutical sector works 2. Learnt how to build a digital detailing tool using R and R Shiny. 3. Learnt about marketing and promotional strategies in the healthcare domain Details of Papers/patents : Brief Description of working environment, expectations from the company : The organisation provided with a healthy learning environment to pick up skills required in the field of Data Analytics, such as SQL and R. I was exposed to the pharmaceutical domain for the first time and learnt a lot about what marketing and promotional strategies are utilised in this sector. All the team members, especially the manager, we're extremely helpful and supportive throughout the intership period. Academic courses relevant to the project : Pharmaceutical Management and Quality Control, Pharmacoeconomics and C programming.	2019-20-sem2

Company	Experience	Year
Genpact, Bangalore	The first day of the internship was one of most nervous days for me, being a student with no knowledge of how the corporate world works. But actually was quite normal. My team was quite friendly, one of my colleagues was actually my TA in college. I was given a brief orientation about kind of work done and the clients they cater by my manager. I was part of a research team in "Healthcare and Lifesciences" domain. Soon the work began and we were allowed to attend various client calls and watching our mentors talk to the clients helped us in understanding how exactly to deal with the international businessmen. This helped me develop the required soft skills. I was assigned to a client, one of the largest pharmaceutical companies in the world. Dealing with an American client required me to learn various approval processes of FDA, patent filing, major players of the US healthcare and pharmaceutical market. My manager asked me to make a weekly newsletter capturing various regulatory updates, product launches, industrial trends, etc. This was an instant hit and I was well appreciated. Genpact helped me learn about various scientific and patent databases and also brush up my knowledge in epidemiology and pharmacy. Working in this organization has helped me understand that in order to excel in what we do, we not only need to have great skills but also a good personality and right decision making ability. I will never forget my experience here.	2015-16-sem2

Company	Experience	Year
Genpact, Bangalore	The overall experience at Genpact, Bangalore was great. At first I was unsure of myself, how I would fit into the corporate culture and that I had to work absurd timings. But my first day proved me wrong, the timings (10 am – 6pm) were the best timings I could hope for. The office culture was very good, even high level managers would come and to talk to me as if I were their equal. When I was first given the project, I did not understand anything. It used so many different and new softwares that I had never heard of. This project was developed by some previous members and I was given the task to add new features and debug the existing bugs in the code. In short I was asked to optimize the code. The project required knowledge of these two softwares: Apache Kafka and Hibernate. Kafka is a message broker system and hibernate is used to communicate with a database from the eclipse console instead of opening the database software separately. Before I could start learning the project I had to first become familiar with these two softwares, so my mentor Mr. Keshav Shrikant made me write programs using the softwares separately. I first wrote a simple producer consumer Kafka program and the made an advanced version of the same thing. With hibernate I had to make a basic CRUD operation program. After that I was asked to create a website which asks users to login or signup for something. Then are redirected to the signup page or the login page whichever they click. New users have to signup and registered users must login. In the sign up page the users are asked to fill in their details which are then stored in a database using Hibernate. When the go to the login page and enter their details they are then matched with the ones in the database if they match they have successfully logged in if not they are asked to retry. Writing these programs made me familiar with the software needed so I went to learn the code written. I was able to fix the bugs which were causing problems to the users. While working here, I learned how to effectively convey my problem to others and get my problem solved. I learned the importance of teamwork and how individual performance doesn't matter if the person is not a good team player. I have met some very knowledgeable persons while working here and I have learnt a great deal from then.	2015-16-sem2
Genpact, Gurgaon	It has been rightly said that every experience teaches an individual some or the other lesson and so does this one at Genpact – Gurgaon as part of the Practice School Program. If I were to throw light on my past 5 months of experience at	2015-16-sem2

Company	Experience	Year
	Genpact, I would recommend it as something which would differ from perception to perception. Genpact is basically known for its high quality Training being provided. I was associated in the Profile of Analytics into the Know Your Customer, i.e. KYC Team. Genpact as an organization basically serves for General Electric (GE). GE has got different lines of businesses like Oil & Gas, Power & Water, Aviation, Energy Management, etc. Whenever a client or a customer approaches GE to avail its product or service then once the Pricing element is discussed there comes the process of payment which seals the agreement. However before the payout, GE wants that its client/customer to be Loyal in terms of payment not just for that particular time period but also in future. For this, it carries out the process called Know Your Customer (KYC). Coming down to the work task, although the profile is of Analytics however what I carried out throughout the period can be categorized into three areas: Preparing the KYC, Due Diligence and ITP Reports of the Clients. Resolving the Bridger alerts. Handling the request on GE's internal tool. The work involved lot of secondary research, use of GE's internal tools, analysis part and final recommendation which is then sent to the ITP/Compliance Team. This is basically Manual analytics part being carried out where only reputational risk of business is involved. As an intern I was not exposed to the actual Analytics part further which involves thorough analysis with the financial reports and where commercial risk is involved. So, overall in terms of work I would say there was less Technicality being involved and as such it depends whether that job excites one or not. Regarding the organization culture and environment, I would recommend it as an option where there is ample amount of flexibility and work life being balanced. The entire Team has been very supportive in terms of guiding me towards accomplishing the task being assigned. There were sort of Compliance issues in the very first month of PS due to which we were not given access to the GE data and that is because Genpact does a very detail background verification check for its new joining. Coming down to conclude, I would recommend this PS for the students who wish to explore their career in the field of Credit Risk or Pricing Analytics; however for KYC, one needs to be self prepared and clear in terms of the career path that this profile would land for him or her to follow. Thanks to Genpact for the Professional etiquettes I learned. Good luck to all the aspiring readers.	

Company	Experience	Year
Genpact, Gurgaon	The overall experience at Genpact, Gurgaon was great. I was not just well trained technically but was also exposed to the high working standards of the company, the very flexible and optimized working conditions, highly qualified and experienced employees which were ready to help and support me anytime. Office timings were fine (12-8 PM) which helped me maintain a balance between my work life and personal life. I have explored several new types of finance related tasks. Tasks like credit limit, credit ratings and bankruptcies have helped me to gain insights about financials of companies, i.e., how to observe companies' financial health by monitoring their financial records. I was working on two projects i.e., Credit Risk Analysis & Order Processing. Both my projects have been done simultaneously by me as daily I had some targets to complete. I have been trained for the work by Genpact employees and they have helped me learn a lot as expected by me for my first corporate exposure. My projects have surely helped me gain practical knowledge and work of two domains of finance which is very fruitful for me. I have learnt working with new finance related softwares like customer connect, credit catalyst , eRAM , credit risk monitor , SAP (system application product) etc. Surely it was a great exposure for me as I acquired several skill sets related to financial fundamentals. My work was praised by my manager as I was very productive and efficient in my work. So, overall it was a healthy balance of learning and delivering.	2015-16-sem2
GenY medium , Hyderabad	Brief write-up on PS-II station : The expectation from this station is that students should possess knowledge of marketing concepts with focus on Digital Marketing, R, Power BI, Python, MySQL. In addition to these, students need to possess communication skills and presentation skills. The learning outcome is that the students will have a broad understanding on Digital Marketing and Marketing Analytics	2019-20-sem2

Company	Experience	Year
GenY medium , Hyderabad	A healthcare brand was assigned as a client, with an objective of increasing the qualification of its leads(which eventually get converted to an assessment) across 5 major cities in which it was offering its services. This began by understanding the digital marketing aspect of this and how the lead journey happens on an overall basis. Google Search campaigns were run in order to get leads on a daily basis as these help in showing the website in the top 3 results. These campaigns were optimized on a daily basis after an analysis of its performance in the preceding day. This analysis was possible with the help of daily tracker, insights tracker and ad-group level tracker that were set-up on google sheet, wherein the customer data and google Ads data was added on a daily basis; which then went through some set formulas to show us the daily performance of the campaigns in terms of spends, impressions, clicks, CTR, CPC, Leads,CPL etc. The client gave the targets on a monthly basis and 80-90% of them were achieved on an average. Tool used (Development tools - H/w, S/w) : Google sheets, Google Ads, Google Analytics, Amazon Marketing Services, Facebook Ads Manager, SEMrush, Moz etc. Objectives of the project : To increase the qualification for the leads in a healthcare brand Major Learning Outcomes : Learned about how digital marketing works and its various applications in different channels such as google, facebook, instagram, amazon etc. Learned how lead journey happens from the lead creation, lead nurturing and to a possible conversion. Excel, goog Details of Papers/patents : Brief Description of working environment, expectations from the company : Work environment was great. Everyday you get to learn something new. Tasks were assigned from day 1 and you were given ample amount of time to complete them. Most of the tasks were interesting while some were a bit tedious. All in all, a great experience if you want to learn something different and new. The company expected you to be accountable for the work you do. Your work was recognized and appreciated well. And you were contributing from day 1 with your work, towards the company. Academic courses relevant to the project : There was not any academic course related to the project which was done in the area of digital marketing.	2019-20-sem2

Company	Experience	Year
GenY medium , Hyderabad	I worked as a digital marketing analyst and also an active member in the business development team to increase the online traffic/sessions and generate more leads and conversions for the clients/B2B/B2C. Major working parts were SEO, SEM, SEO audits, backlinking, etc Tool used (Development tools - H/w, S/w) : SEMrush, Moz, Google Analytics, Google Search Console, forestry.io, WordPress, SimilarWeb, Google PageSpeed Insights, MS Excel/MS Word/MS PowerPoint, Facebook Ads Manager, Google AdWords, Google SEARCH/DISPLAY/Youtube Campaigns, Keyword Planner Objectives of the project : The objective behind this project is to generate ideas, initiatives & activities that are aimed towards making a business better and, create long-term value for an organization from customers, markets and relationships. Major Learning Outcomes : Search Engine Optimization, Business Development, ON Page SEO, OFF Page SEO, Competitor Analysis, Digital Marketing Analytics Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Principles Of Management	2019-20-sem2
GEP , Navi Mumbai	Brief write-up on PS-II station : Essential prerequisite courses required before working on the project Python OOPS and Data structure Python, Pyspark, Azure Data Factory, SSMS OOP, NNFL DBMS, course that deals with Apache Spark and Data Bricks	2019-20-sem2

Company	Experience	Year
GEP , Navi Mumbai	I was assigned to the Data Engineering team within the Data Science Dept. of GEP. During the course of my internship, I worked on 3 projects. The first was a short python script project for reading the data and uploading it to SQL server. The second was from Data Science which was geography normalization which required various forms f fuzzy string matching and the final one was from Data Engineering team again, which was data development and enrichment for a chat bot. PS - You may be assigned to Data Science dept. but that won't guarantee a Data Science project as was in my case. Tool used (Development tools - H/w, S/w) : Pyhton, SQL, Spark, Azure Data Bricks, Azure Data Flow Objectives of the project : ETL pipeline for Chatbot Major Learning Outcomes : Spark Details of Papers/patents : Brief Description of working environment, expectations from the company : GEP has an awesome work culture and friendly people who guides you through your projects and tasks. Most likely you won't be assigned a mentor and you would be the part of team from day 1. You will get a proper corporate experience and will have an idea what the life of an programmer is like in the industry. Academic courses relevant to the project : DBMS, Machine Learning	2019-20-sem2
GGK Technologies - Data Analytics, Hyderabad	AWS and Natural Language Processing Objectives of the project: Backup DynamoDB data; Create NLP application Outcomes of the project: Successfully delivered requirements Major Learning Outcomes: Learned about cloud technologies and NLP Brief Description of working environment, expectations from the company: Work was good. Company was good.	2016-17-sem2

Company	Experience	Year
GGK Technologies - Data Analytics, Hyderabad	Learnt angular 2 framework and engaged in development and debugging of a web application.Plenty to learn but the work hours are strict, lenient in holidays if sick.Worked on a project in vue.js framework. Tools used (Development tools - H/w, S/w): Visual Studio, Angular 2, Vue.js. Objectives of the project: Creating an internal application for automation and maintenance of testing data. Outcomes of the project: Successfully working and deployed as an internal application. Major Learning Outcomes: C#, in depth angular, vue.js. Brief Description of working environment, expectations from the company: The working environment is good, professional, and not so strict except in terms of work hours. You are expected to work 8.5 hours a day excluding your lunch hours.Their is a nice peer learning environment here. Loads of chances of grabbing a PPO and your branch doesn't matter at all if you are looking for a relatively easy chance of grabbing a PPO in IT.	2016-17-sem2
GMR Infrastructure Ltd , Hyderabad		2018-19-sem2
GMR Infrastructure Ltd , Hyderabad	Mainly engaged with design and construction techniques of taxiway and apron. Done with some design methods, design software and could watch the construction techniques adopted in site Tool used (Development tools - H/w, S/w) : FAARFIELD Objectives of the project : Learn about design and construction of taxiway and apron Major Learning Outcomes : Design methods and construction procedure of airport elements Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment was fine and colleagues were helpful Academic courses relevant to the project : Airport planning and design	2018-19-sem2
GMR Infrastructure Ltd , Hyderabad	Very much helpful for a structural engineer Can learn basics of execution of construction Lot of opportunities to study Tool used (Development tools - H/w, S/w) : Etabs, Primavera Objectives of the project : Learn to handle construction sites Major Learning Outcomes : Good Knowledge in structural design and construction activities Details of Papers/patents : Brief Description of working environment, expectations from the company : very nice Academic courses relevant to the project : DRCS, ASA	2018-19-sem2

Company	Experience	Year
Goldman Sachs - Investment Banking , Bangalore		2019-20-sem2
Goldman Sachs - Investment Banking , Bangalore	Part of EMEA Financial Institutions Group, IBD; worked on live projects in European & GCC Banking, European Asset Management and European Insurance Sectors Tool used (Development tools - H/w, S/w) : Internal tools; MS Excel, MS PowerPoint Objectives of the project : Understanding the rationale behind Mergers & Acquisitions, and qualitatively & quantitatively pitching to the client substantiating our strategy to go about the process Major Learning Outcomes : Overall understanding about the IBD space, key financial metrics used, impact of macroeconomic events on various deals and financial models used Details of Papers/patents : Brief Description of working environment, expectations from the company : High peerbased learning; got to work on live projects; no differentiation despite being an intern Academic courses relevant to the project : Business Analysis & Valuation; Fundamentals of Finance & Accounting; Financial Management; Security Analysis & Portfolio Management; Derivatives & Risk Management	2019-20-sem2
Goldman Sachs - Investment Banking , Bangalore	Analyzing and preparing generic industry, market or specific company overviews; Researching and analyzing specific company financial information and fundamentals; Creation, maintenance, and analysis of basic and advanced financial modeling to build a valuation perspective; Assisting in forming the appropriate structuring of a deal; interact frequently with bankers in different regions. Tool used (Development tools - H/w, S/w) : MS Office Objectives of the project : Buy Side advisory to choose appropriate target for the prospective client out of most selected peers Major Learning Outcomes : M&A Advisory, Financing (Equity and Bond issuance), Corporate Defence , Broking (ECM) Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Financial Management, Business Analysis and Valuation, Fundamentals of Finance and Accounting	2019-20-sem2

Company	Experience	Year
Goldman Sachs - Investment Banking , Bangalore	Making Pitchbooks, client meeting materials, working on valuation material and anything related to an on going transaction. I was part of Industrials team and mostly dealt with Airlines and Packaging industry Tool used (Development tools - H/w, S/w) : Excel, PowerPoint, Bloomberg, Thomson Reuters Objectives of the project : No specific project. You have to work on any ongoing transaction or client meeting your team is working on. Major Learning Outcomes : Learnt to work under immense pressure and tight deadlines while meeting quality standards. Have mastered the Excel and PowerPoint hacks. Was able to see how the theoretical financial concepts are applied in actual transactions. Details of Papers/patents : Brief Description of working environment, expectations from the company : Very flat heirarchy. Everyone is approachable and willing to help you. But the quantum of work is huge. Pulling off all nighters is a common on floor. It's a great learning opportunity - you are given ownership of the work and the distinction between an Intern and full time Analyst is very less. You'll almost be given similar responsibilities and perks. Good networking skills are extremely important for a long term future. Academic courses relevant to the project : BAV, FundaFin, TechRi	2019-20-sem2
Goldman Sachs India Pvt. Ltd. - Operations , Bangalore		2019-20-sem2

Company	Experience	Year
Goldman Sachs India Pvt. Ltd. - Operations , Bangalore	I interned in the securities division at goldman sachs. The primary role on desk was within equities asset class. It was a risk management function in equity derivative ops providing accuracy, timeliness, and integrity to securities underlying business, controlling the risk associated with the booking and legal documentation of structured derivative transactions by performing independent and thorough review. Tool used (Development tools - H/w, S/w) : GS internal tools and calculators, MS-Excel Objectives of the project : Reduce the time for trade review process of equity linked notes Major Learning Outcomes : Function required extensive interaction with the traders, structuring and strategists/quants and also involves work with the other departments, including the documentation teams, middle offices, legal and product control. Details of Papers/patents : Brief Description of working environment, expectations from the company : Work hours can get tough depending on trade volumes. Organization is more or less flat in terms of hierarchy. Academic courses relevant to the project : DRM, SAPM (not necessary but useful)	2019-20-sem2
Goldman Sachs India Pvt. Ltd. - Operations , Bangalore	The work in the Exotic Trade Review mainly comprises of a detailed analysis of different equity-linked over-the-counter trades to manage the operational risk. The team ensures the consistency of internal booking systems with the legally binding documents before they are handed over to the clients. Tool used (Development tools - H/w, S/w) : Objectives of the project : Eliminate the discrepancies between the document and the internal records so as to prevent unexpected mismatches during settlements. Additionally, the documents sent out to the clients must reflect the agreed-upon intent of the trade correctly and compreh Major Learning Outcomes : Understanding of the characteristics of various derivatives, of exotic options & their valuation and of the outcomes, behaviour & payoffs of complicated trade structures. Details of Papers/patents : Brief Description of working environment, expectations from the company : You are given real responsibilities and offered good learning opportunities. The managers and teammates are professional and helpful. Academic courses relevant to the project : Derivatives and Risk Management	2019-20-sem2

Company	Experience	Year
Goldman Sachs India Pvt. Ltd. - Operations , Bangalore	The first phase was to understand how my team chases the client daily and how to manually extract the required data that is to be sent to the client. I used VBA on which you can code and develop macros to automate the process. I developed a macro which does the complete work in just 4 clicks and thus requiring minimal manual effort. I also used Alteryx and automated quite a few processes Tool used (Development tools - H/w, S/w) : VBA Excel Macros, Alteryx, SQL, Tableau Objectives of the project : AUTOMATION OF INTERNAL AND CLIENT E-MAILS Major Learning Outcomes : • I didn't have any background in coding. So, I learnt coding in VBA after coming to GS only. • Apart from this, I have been constantly learning about other Business Intelligence tools like Alteryx, SQL, and Tableau. • I acquired some of the most importan Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : DRM, FINMAN, FINE	2019-20-sem2
Goldman Sachs India Pvt. Ltd. - Operations , Bangalore	My work is processing the Structured Products which is a combination of Bonds and derivatives with varied underlie-rs. The work is deadline based as these are securities Issued into the Market. As a part of project it is expected to bring in changes in workflows and undertake automation tasks. Goldman also has a Data School program where they teach Business Intelligence software to empower the employees to undertake automation tasks. Tool used (Development tools - H/w, S/w) : Microsoft Excel, Sql, Alteryx and some Goldman internal softwares Objectives of the project : Automation Major Learning Outcomes : Chance to learn Excel VBA, Sql , Alteryx, Tableau Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Finance Minor	2019-20-sem2
Goodera (Next Gen PMS) (Non IT) , New Delhi		2018-19-sem2

Company	Experience	Year
Goodera (Next Gen PMS) (Non IT) , New Delhi	Key Account management of CSR for different clients. Work mainly involved going through MoUs between NGOs and Corporate, identifying KPIs for CSR projects, data cleaning and dashboard designing. Tool used (Development tools - H/w, S/w) : Excel, Word, Powerpoint Objectives of the project : Data management for CSR Major Learning Outcomes : Knowledge about CSR industry.Working on large scale data Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : NA	2018-19-sem2
Goodera (NextGen PMS Pvt. Ltd)- Non IT , Bangalore		2018-19-sem2
Goodera (NextGen PMS Pvt. Ltd)- Non IT , Bangalore	I was assigned to Product Team at Goodera, and have been working in the Product Analyst profile. Daily work included writing documentation and user guides for already existing products, competitor research, writing product requirement documents and user stories, or doing platform configurations on company's internal software. Major responsibilities included Product research, based on client needs and market fit. As a part of Product research, a lot of market research was done into current competitors and Corporate Social Responsibility laws around the world. For deep insight into working of CSR, possible company structures were predicted with the help of information available in the public domain such as LinkedIn profiles, company websites and annual reports. Apart from this I was also assigned a lot of ad-hoc analytics and research into possible features which could be included on the platform. Another major part of work was ESG Reporting, I was assigned to write executive summaries on current ESG Reporting frameworks such as GRI, SASB, CDP, etc. These are utilized by companies to disclose their environmental impact to investors and general public. I was assigned to define a mapping which could connect various frameworks together and reporting could be made easier. All these were also supplemented by frequent cross team functions and insights into product development pipelines. All in all, learnt a lot about product management and hope to continue in the field. Must know skills include Excel and SQL. Tool used (Development tools - H/w, S/w) : Microsoft Excel, Microsoft Powerpoint, Metabase Objectives of the project : New Product Development and Competitor Research Major Learning Outcomes : In dept knowledge of ESG and CSR lawas around the world. Good introduction to Product Management	2018-19-sem2

Company	Experience	Year
	as career. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment was great and timings were flexible. Work was only on weekdays and didn't bleed into weekends. A few late nights were done, but nothing major in terms of going off balance. Great work life balance with social team mates and great working environment. People were always ready to help and learnt a lot. Although activities around the office were something that were left much to be desired for. Office was pretty much plain with quiet and comfortable environment with desks and meeting rooms. Apart from a few beanbags lying around, there wasn't much for employees to hang around the office or have fun. But apart from that, all in all a great experience and introduction to corporate working environment. Academic courses relevant to the project : Technical Report Writing	
Goodera (NextGen PMS Pvt. Ltd)- Non IT , Bangalore	I had the opportunity to work with the marketing and sales team of Goodera. My internship started with basic tasks involving industry and marketing research. Within a month I was assigned with the task of end to end implementation of Salesforce for the whole business unit and learning how to use it. From second month of my internship I started with the sales function of the team for one of their volunteering offerings. This involved end to end management of the client which included sales and customer success management. I was also assigned with the responsibility to set up the machine for pre-sales and inside sales in the unit. On the marketing side I was also involved in marketing vendor management and other mediums for lead generation and brand building. Tool used (Development tools - H/w, S/w) : Salesforec, Mailchimp, HubSpot Objectives of the project : Sales and Marketing Major Learning Outcomes : Sales techniques. Marketing Lead generation and branding methods. Details of Papers/patents : Brief Description of working environment, expectations from the company : Interns are not treated as just interns here, instead assigned with more serious responsibilities like a full time employees. It was a huge learning experience for me. Right from the senior directors to CEO everyone is friendly and easily accessible. They guide you with all the help you need. They keep doing activities for employee engagement like volunteering programs, indoor sports, etc. Academic courses relevant to the project : Marketing and Sales	2018-19-sem2

Company	Experience	Year
Goodera (NextGen PMS Pvt. Ltd)- Non IT , Bangalore		2019-20-sem2
Goodera (NextGen PMS Pvt. Ltd)- Non IT , Bangalore	As part of Product Team. I worked with different teams and helped in development of their new product which reduced their Dashboard building time by 80%. Tool used (Development tools - H/w, S/w) : Postman,JavaScript,HTML, CSS, MongoDB Objectives of the project : New Product Development and Building Demo Products. Major Learning Outcomes : Organizational Structure, Product Development Cycle, Knowledge about tools and frameworks used is Web Application Development. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : OOP	2019-20-sem2
Goodera (NextGen PMS Pvt. Ltd)- Non IT , Bangalore	Work was divided into two projects: Data Outlier Detection to detect outliers in the client data and creating a common framework which would enable all the developers to create and upload excel files effectively and much more quickly Tool used (Development tools - H/w, S/w) : Python,Pandas,Numpy,Angular Js, Node Js Objectives of the project : Creating a data outlier detection tool and creating a common framework to download and upload excel files Major Learning Outcomes : Version Control Systems, Rest API's, Working with large data Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is non taxing and learning is encouraged and ample time is alloted Academic courses relevant to the project : Neural Networks and Fuzzy Logic, Machine Learning	2019-20-sem2
Goodera (NextGen PMS) - IT , Bangalore		2018-19-sem2

Company	Experience	Year
Goodera (NextGen PMS) - IT , Bangalore	The main objective of the project was to provide real-time data to enterprises about their CSR projects. To provide Monitoring of Projects on a regular basis and Evaluation and Impact Analysis, and to provide NGOs with a platform to collect data in a feasible manner and improve transparency between NGO and corporations. I mainly worked on making custom dashboards for clients to view their csr activities . The project required full stack web development Tool used (Development tools - H/w, S/w) : Git , Nodejs , react , html, css Objectives of the project : Building Custom Dashboards for Clients so that they can monitor their CSR activities. Major Learning Outcomes : Learned about Git, React and nodejs Details of Papers/patents : Not applicable Brief Description of working environment, expectations from the company : Colleague are very friendly and helpful. Daily working hours is 9 .It is not a very big company . The company provides solution for the entire lifecycle of CSR activities. Academic courses relevant to the project : Database ,Data Structure and Algorithm , OOP	2018-19-sem2
Goodera (NextGen PMS) - IT , Bangalore	• Actuarial Project: I replaced the existing sum assured evaluation Spark Job with my own evaluation time job and reduced the running time from 48 hours to 2 hours for 6.5 million records using AWS EC2 nodes to deploy the job. • Kafka Cloud Manager Tool: Implemented a cloud manager tool to track data going in and out of Kafka • Documented all the existing big data jobs and changed the aurora deletion times in Apache NiFi to make sure that redundant data doesn't stay in the database for more than one hour. • Wrote several spark jobs to retrieve data from kafka • Implemented a 3-node kafka cluster using AWS EC2 instances and used Kafka connect to send data from JSONs stored in server to a Postgres SQL server (PGadmin4) by sending through kafka. Tool used (Development tools - H/w, S/w) : Apache Kafka, Apache NiFi, Apache Spark, Scala, Python Objectives of the project : Reducing the runtime of the existing jobs Major Learning Outcomes : Learned how to create end-to-end ETL pipelines using Spark, NiFi, and Scala Details of Papers/patents : Brief Description of working environment, expectations from the company : • Relaxed working environment. • Great colleagues who always are ready to help out when you get stuck. Academic courses relevant to the project : Data Mining (will cover only the conceptual basics)	2018-19-sem2

Company	Experience	Year
Grasim Industries Ltd. , Nagda	Brief write-up on PS-II station : Students should have interest in Environmental Pollution control and contribute to Zero Discharge Plant initiative. The students should evince interest in data collection and analysis, interact with the employees of the organization professionally and follow industry code of conduct. The industries want that the students should come up with suggestions and recommendations based on data collection and analysis so that the organization benefits and students also have good learning during the period.	2019-20-sem2
Grasim Industries Ltd. , Nagda	In this project we concentrated on the ETP (Effluent Treatment plant) and its working. We also studied the new equipment that has been introduced in the department. We also found out the functioning of all the machinery in the ETP. We also found out how pH of the Inlet water changes with the acidity of the acid used and how it should be neutralized. We also studied the removal of the Zinc material from the Inlet water. We also studied the waste percents and why the waste in question is at a higher rate compared to others. We also studied how the cleaning procedures of jets and candles can be improved with greater efficiency. Tool used (Development tools - H/w, S/w) : Microsoft Excel, MATLAB Objectives of the project : Methods to reduce ETP Load due to Spinning Major Learning Outcomes : How pH varies with Acidity & other factors, pH level for the removal of zinc from waste water Details of Papers/patents : Brief Description of working environment, expectations from the company : Working with the shift engineering was really good. They were very cooperative in helping me during the PS2. Academic courses relevant to the project : 1. Introduction to Fluid Mechanics 2. Unit Operations of Chemical Engineering 3. Chemical Engineering Thermodynamics.	2019-20-sem2
Grasim Industries Ltd. , Nagda	Detailed analysis of the efficiency of scrubber system with new design equipment, efficiency analysis of the condenser system with fins, derived a function of parameters for maintaining optimum recovery of CS2. Tool used (Development tools - H/w, S/w) : Aspen , Excel Objectives of the project : To increase the CS2 recovery percentage from spinning department , using data analysis , new design. Major Learning Outcomes : Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Chemical process technology, Heat transfer.	2019-20-sem2

Company	Experience	Year
Grey Orange Robotics India, New Delhi	My Internship at Grey Orange has been an awesome experience. The quality of work given to me and the mentorship provided was great, I learned a lot about new Technologies, understanding corporate life, expert guidance and apprehending new technologies and their developments. This PS2 internship has given me exposure to corporate life and gave me a better understanding of the startup culture and the processes involved in end to end product development. Working at Grey Orange, I realised the importance of writing efficient and scalable codes. I was member of Butler Server Team and worked on the Butler interface part of the Team. The team basically wrote Backend RESTful API for interaction between Butler Server and Client, I was new to backend development so was a bit scared, but my mentor Paul John helped me with the concepts and gave me time to get familiar with new technologies. I was part of 4 member team for creating Manager Dashboard backend API's for the Grey Orange Butler Client, the project started from scratch. The main thing I learned was Design of manager dashboard how to work on architecture of your project, and how to make it scalable. After this I was given project on GPMS (Global Peripheral management System) Scanner integration, the requirements was to implement GPMS_v2 protocol for scanner and make communication of scanner in warehouse to GPMS bridge over multicast and TCP. I learnt many new skills during the course of my internship. Firstly, I got exposed to the world of backend Development and its applications in the development of real world applications. Also, I got to learn about version controls like Git. Finally, I learnt about handling pressures like delivering the code on time. Secondly, you get to work on real life projects which teach you many things that you don't see in college. The new technologies coupled with great mentors, give you a fresh perspective to developing things.	2015-16-sem2

Company	Experience	Year
Grey Orange Robotics India, New Delhi	My project involved setting up an inventory replenishment model for a client for the butler system. I had to read about doubleechelon inventory systems to understand the difference between it and regular systems and the various costs involved in maintaining such a system. First, I created a formula to derive the quantity of an SKU to keep in the forward picking area based on the data provided by the client. This was a static analysis in which the inventory was split into two parts using just previous data and then many different possible inventory sizes were considered, each having their own costs associated with them. The inventory with the minimum total cost (CAPEX + OPEX) was considered. After this analysis, which was on a static database, the next step involved creating an algorithm that could reassign inventory as the demand of various SKUs changed. Next, the algorithm was tested on the client's historic sales dataset. To facilitate the simulations, a python script was written which used an SQL database. The algorithm was then trial run with several settings, by changing variables around, to find the best configuration which would ensure a fulfillment rate of more than 98% from the forward picking area. To complete this project, I needed knowledge about inventory management and how to work around MS Excel, which I was able to learn from the internet. As for studying about multiechelon inventory systems and dynamic inventory systems, I was given relevant research papers to read and the team shared information.Over the period of the project, I really got an understanding of how the production process occurs in a company, the various stages of research & development involved in making complex products, and since this internship is long (5+ months), I truly got to understand the many stages of completing a project.Here, the environment is very mobile and people are used to working with deadlines looming ahead. You are allowed to pursue whatever topic you are interested in and aren't restricted to your domain. You get to learn many new things here because most of the people here are either very young (>25) or very experienced in their respective fields, which makes it a great learning opportunity for freshers.	2015-16-sem2

Company	Experience	Year
Grey Orange Robotics India, New Delhi	My internship at Grey Orange Robotics was an amazing experience considering the technicality of the project I was assigned and the work culture. Being one of the fastest rising startups has its own advantages – I got to work on upcoming products that would be used by companies like Flipkart. The people I met here are immensely talented and I learnt a great deal by just talking to them. The kind of faith that was shown towards me was a bit of a surprise for me (as well as a huge responsibility in itself). The constant faith my mentor and my team showed in me was very encouraging. This PS2 internship has given me exposure to the work culture at a startup and gave me a better understanding of how a company works and the processes involved in end to end product development. I learned the importance of writing good quality code which is acceptable for deployment purposes. I was a member of the Sorter Server team which deals with one of the products designed and manufactured at Grey Orange - Sorter. There are two types of Sorters this team works on : Linear Sorter and Cross-belt Sorter. I was mainly involved with the development of the Cross-belt Sorter. The main idea behind my project was to check whether the program implemented for the sorter is functioning properly in a development environment. A simulator is needed for this purpose because of the external dependencies such as data from other systems, sensors, components etc. This simulator helps in eliminating all these dependencies to mimic real production performance. Overall it was an enjoyable experience and I thank the Grey Orange team for making me feel at home in the company.	2015-16-sem2

Company	Experience	Year
Grey Orange Robotics India, New Delhi	I interned as a UI/UX Designer at GreyOrange. I worked on creating user interfaces, optimizing user experience and user research. I also worked on creating graphic design, logos, branding and identity. The major skill sets required were Photoshop and Illustrator tools, brand research and a keen aesthetic sense. For the first month, I was given various mock projects to polish off my technical skills in design and once I gained proficiency in them, I was handed over major projects that went live online. I worked on various dashboard designs, app design and logo design. Each deliverable went through a meticulous process of multiple iterations and a well thought out design process. I was also involved in video editing and animation for their product videos. Thus, I gained a fair knowledge of Adobe After Effects as well. The amount of responsibility and work given to an intern here is immense. I was the sole point of contact of various projects and am involved in the product right from conceptualization to the design finally reaching the user. At GreyOrange, I've learned how a midsized startup works and transitions into a firm. Being my first stint as a corporate designer, the learning has been immense. I've been thrown into the deep end in the world of design and learnt right from the basics of design. I have acquired proficiency in design tools and feel confident to step out a professional designer. Seeing my designs on tangible products is a feeling I cannot express and when people appreciate your work, it feels that you might just be headed in the right direction.	2015-16-sem2
Grey Orange Robotics India, New Delhi	Grey orange robotics is a warehouse robot manufacturer with immense learning opportunities in various core fields: Mechanical, Electrical, Software, Embedded. We get to work on the same projects that the full time employees work on and this way we gain immense knowledge through the hands on exposure. Companies rarely allot interns to the R&D team, but here anyone with a good technical background can be allotted into the R&D team. Most of the workforce here is young and enthusiastic and hence one can connect with them easily. One can learn a lot from them by just carefully looking at how they approach the problem and asking as many good questions as one can. People are sweet and will not hesitate to guide others. Since the work force is mostly young and not with a past work experience to boast off, to start any new project, everyone starts with the research and hence everyone is on the same level and one can always catch up by doing their own research about it. The Mechanical R&D team	2015-16-sem2

Company	Experience	Year
	is full of knowledgeable and helpful people who are willing to share their knowledge. The team meetings and discussions are conducted in a manner that help to keep everyone on board and to discuss new topics and share and gain knowledge. I was assigned one major project apart from the various small projects. We were supposed to design a test jig which would be used to calibrate the driving motors of the robot wheels. Generally, calibration is long and tedious task, to reduce this effort we made a test jig which allowed the motor to run in the working condition continuously until the solution converged. To enable this, it was ensured that the assembly could keep moving in circles so that the distance and time are not limited. After extensive collaboration with the electronics and embedded team, who would have to work on the jig, the design was finalized and manufactured and assembled for future use. Skill sets: CAD designing basics; we research and learn most of the things when the requirement turns up. Being a startup, Grey orange provides everyone with a lot of learning opportunities. Since we design the parts and oversee the testing, manufacturing and assembly, one can gain an overall experience in all the fields. It offers practical experience where one can learn from their mistakes and revise and perfect them and learn from their as well as others mistakes. Since they are just a start-up, they are open to the fact that mistakes happen and that it is just a way of learning. We learn that there is a lot of difference in theory and practice and one needs to have some practical knowledge to convert a design into an actual part. Overall, it is a great learning opportunity, especially for those interested in R&D.	
Groww - Software Development , Bangalore		2019-20-sem2

Company	Experience	Year
Groww - Software Development , Bangalore	It was mainly Backend Development for web and app. A whole new learning platform to learn about investment world was developed by us. Backend development was done in Springboot MVC framework. Tool used (Development tools - H/w, S/w) : Java, Spring MVC framework, Maven, Git Objectives of the project : To make the investing platform more secure and easy to onboard for the new user. A new learning platform for the users who are new to this. Major Learning Outcomes : Backend Development usingSpring MVC framework, working in a team and sticking to deadlines. Details of Papers/patents : Brief Description of working environment, expectations from the company : The work environment is quite cool and fun. Employees are very helpful. You'll get to learn a lot while working in a team. We worked directly under the CTO of the company. If you have some suggestions, they value it and if it is better than the other ones, then implement it. You are given tasks that are important and sometimes critical too, so you're expected to stick to the deadlines sometimes very strictly. If you did something, you own that and any further improvements are in your own interest. In short, it's way great if you want to learn new things and how to work in a company. Academic courses relevant to the project : OOP, DSA, Computer Networks	2019-20-sem2
HAPPAY (VA Tech Ventures Pvt Ltd.) , Bangalore		2019-20-sem2

Company	Experience	Year
HAPPAY (VA Tech Ventures Pvt Ltd.) , Bangalore	Work was mostly related to software development (Back-end). They asked us to build web applications which were directly used by the company. The working cycle consisted of daily status evaluation after the 15 day target was allocated. Development was in Python and Django. I've made Gmail Parser and Invoice Center application along with GST service application. Tool used (Development tools - H/w, S/w) : Python and Django(API design), Postman, Docker Objectives of the project : Gmail Parser and Invoice Center Web Application Major Learning Outcomes : Learning involves use of Object Oriented Programming concepts in Python and use of Django framework. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment was very encouraging. There are seniors willing to help always. There's not much of diversity in the work, it's mostly Back-end APIs related only. Academic courses relevant to the project : OOP	2019-20-sem2
HAPPAY (VA Tech Ventures Pvt Ltd.) , Bangalore	I was part of product management team at Happay during my PS2. I was responsible for defining product requirements, planning the product roadmap, enhancement of existing product features and brainstorming on new product possibilities. I interacted with the Engineering/ Product teams to develop viable and innovative solutions for product related issues. Staying abreast of the competitive landscape and to solicit customer feedback on existing product capabilities were some of my key functions in this role. Tool used (Development tools - H/w, S/w) : Balsamiq Mockups, Lucidchart, Mircrosoft excel, Mircrosoft word, Mircrosoft powerpoint Objectives of the project : Vendor Product Enhancement Major Learning Outcomes : Product Management Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Principle of management, Principle of Economics, C programming	2019-20-sem2
HCL Technologies, Noida		2016-17-sem2

Company	Experience	Year
HCL Technologies, Noida	I was a developer in the team that built the HCL's chatbot 'Lucy'. My role was to add features/services to it. Weather API, qna maker, scheduler, automater, reverse-bot, were some of my contributions. I was also assigned the technical SPOC (single point of contact) for one of the projects. Tools used (Development tools - H/w, S/w): Nodejs, python, IBM bluemix, aws and amazon alexa Objectives of the project: Service desk automation. Outcomes of the project: Service desk automated. Major Learning Outcomes: Understanding of MNC work culture. Using PASS writing industry standard code. Brief Description of working environment, expectations from the company: HCL has a healthy work environment. Everyone around os friendly and helpful. Your work and growth depends majorly on your manager. In my case, I found a mentor in mine, who would tell me how to proceed before assigning work, and was always there whenever I got stuck.	2016-17-sem2
Healthcare Technology Innovation Centre (HTIC) , Chennai		2018-19-sem2

Company	Experience	Year
Healthcare Technology Innovation Centre (HTIC) , Chennai	The present study was done in order to develop a molecual based assay for on feild identification of Aedes aegypti, as it is a vector for dengue virus. There is no proper vaccination against the virus and the only effective startegy against the disease is the control and estimation of the vector population. The conventional methods of vector surveillance are time consuming and requires lots of expertise and proper lab set up making it difficult for rapid identification and in places where there is shortage of resources, therefore the molecular method was developed by designing loop mediated isothermal amplification primers for CO1 gene of the mosquito . the primers showed positive results and with further optimisation can be used in feild settings and also the assay can be used even by poor economies as the cost is very less. Tool used (Development tools - H/w, S/w) : Mini PCR, Nano Drop, centrifuge. Objectives of the project : To develop an assay for on feild identification of Aedes aegypti for vector surveillance Major Learning Outcomes : Primer designing and optimization of LAMP assay to over come the common problem of primer sekf amplification Details of Papers/patents : NA Brief Description of working environment, expectations from the company : The working environment was good with enthusiastic people, working on intersting projects in the feild of biomedical, the wet Lab is small with small setup Academic courses relevant to the project : Molecual biology, genetic engineering, immunology	2018-19-sem2

Company	Experience	Year
Healthcare Technology Innovation Centre (HTIC) , Chennai	Worked on LAMP Primer design for identification of Culex quinquefasciatus. DNA extraction from mosquitoes using Rapid DNA extraction kits like the ones from Arcis, Punch kits and Boiling Method. Troubleshooting using small molecule additives like Betaine, DMSO and Glycerol End point detection using SyBr green. Tool used (Development tools - H/w, S/w) : LAMP primer design tool - PrimerExplorer, Thermofisher Multiple Primer Analyzer Objectives of the project : 1. Designing LAMP primers to detect Culex quinquefasciatus 2. Optimize reaction conditions to reduce the assay time. Major Learning Outcomes : Setting up a LAMP reaction, About Isothermal amplification techniques, Designing primers, Troubleshooting strategies to prevent non-specific amplification Details of Papers/patents : Brief Description of working environment, expectations from the company : Basic knowledge in molecular biology techniques and using basic bioinformatics tools like BLAST, ClustalW etc., Academic courses relevant to the project : Genetic Engg Techniques, Experimental Techniques and Advanced Recombinant DNA Technology	2018-19-sem2
Here Maps - A Nokia Company, Mumbai	My PS-II station is Here Maps Mumbai. I have been working as a part of Data Infra layers Team. Past five months have been an amazing learning opportunity for me. The time spent at PS-2 has been a great teacher in various spheres, for understanding corporate life, expert guidance, learning new technologies and their developments. I started as novice in the domain of web developer but after spending such a long time and working on live projects, attending scrums. I came to know how what is corporate life. My project was mainly to add features to the company's internal application and modify it and I learnt all the technologies like Scala, JavaScript and AngularJS from the internet. The industry is working on feats that are much ahead of what is taught as academics. Sure, the basics are still the same; but constant learning is not a myth- it's the very reality we exist in and PS-2 has just been a reminder of the same.PS-2 helps one to build their persona, knowledge base and interact with industry experts. The experience at PS-2 - if not affect my future career prospects - has at least made me aware of the current industry standard and situation and that adds to better chances at scoring a workplace.	2015-16-sem2

Company	Experience	Year
Here Maps - A Nokia Company, Mumbai	My Practice School was in HERE Solutions, a provider of mapping data to various sectors, under the mentorship and management of Danny Savla. I was initially very skeptical and nervous owing to the fact that I am an Electronics Student interning at a PS station clearly intended for Computer Science students. I was also very new to the technologies employed at the organization. But my first meeting with my mentor eliminated all my fears. They were completely understanding of my situation and helped me get acquainted with various popular technologies in Web Development (JavaScript, HTML, Angular JS, Node JS and Mongo DB) in fairly short span of time. They taught me to learn by exercise. My first project was to develop a full stack web application using the MEAN stack (Mongo DB for the back end databases, Express and Node JS to script the servers, and Angular JS to render the front end). They had progressively increased the scope of the project while I was learning the technologies required in the project. I had acquired the requisite skill sets through online tutorials on the subject and practice. Throughout the second half of my PS, I was working as an active team member with targets assigned to me that would always be new and interesting. Their requirements from me would ensure that it was always in my grasp but never fail to challenge me and stretch me to my best. It would always keep me on my toes and they would assure me that I was on the right path to the target.	2015-16-sem2
Here Maps - A Nokia Company, Mumbai	In the 5 months at Here Maps I experienced numerous aspects of work in a professional environment. I got to know what is to be expected, how to conduct oneself in a professional environment and to be patient if things do not work out easily. Also I got to know a lot about the current technological practices and learnt how to use them as well. The entire experience has been very satisfying. The employees at Here are friendly and always willing to help whenever you need it. One can also approach the managers and they will always be ready to address any concerns. My mentor is the Principal Engineer here and as such is always very busy. Still he would give his time whenever I was stuck. In my case, I was given time to learn how to work, what is expected and how to make things better than what has been implemented. Although there is a huge difference in academic projects and an actual professional project in terms of technologies used, having a good understanding of basics always helps. I was allotted to work on implementing the user	2015-16-sem2

Company	Experience	Year
	interface for drawing roads along with the actual number of lanes on top of maps. This was mostly dependent upon knowing web technologies and devising code to layout the lanes in the desired orientation on the map. Implementing this took time but it was very satisfying when everything worked fine. During this time I also learnt how to actually code so that it can be implemented for professional use, basically it requires implementation of OOP concepts and to be able to break every step into small functions so that the reusability of the code increases as well as it becomes much easier to debug and understand. Then I was asked to devise something for predicting the flow of traffic along the lanes of the road at junctions (i.e. which lane would the vehicle go if it wants to turn left or right or go straight at traffic signal stops). I got to know about web services and how to use them as I needed to access data which could only be accessed by pinging two of their web services together. We are trying to implement this project using a neural network and after all the setups we will have to see the accuracy of the model which we have implemented. This is a very exciting project and I am still working on it. After working here, I now have some idea of how web technology works and also increased confidence to solve new types of problems. Definitely my skill level has increased than what it was in college and that too at a much faster pace. Also my soft skills have also improved, which is very important for the professional sphere. Overall I would say PS-2 is a great opportunity to learn and get accustomed to professional environment.	
Here Maps - A Nokia Company, Mumbai	I'm about to complete my PS 2 at HERE Maps. The company's origin dates back to 1985 where it started as NAVTEQ and went on to be a subsidiary of Nokia. Currently, it is a joint venture of Audi, BMW and Daimler AG. Here is a multi-faceted business in the provision of mapping data, technologies and services to the automotive, consumer and enterprise sectors. The technology of Here is based on a cloudcomputing model, in which location data and services are stored on remote servers so that users have access to it regardless of which device they use. I work with the extraction team, which concerns itself with making out meaningful information from map data collected. I'm responsible for building an analyzer for GDF documents (they are the documents which store maps data), in the form of a java API. Though I had expected some serious data mining work as was mentioned in the PS portal, it was a good learning experience as far as coding as	2015-16-sem2

Company	Experience	Year
	per the industry standards is concerned. I learnt how to write clean and maintainable code, by following some of the best Java development practices. My mentor, Mr. Paresh Patel is an architect in the team and a very experienced and knowledgeable person and helped me understand a few of these industry level coding practices. The company offers flexible working hours to all employees and interns. All my teammates are cooperative and helpful people. Besides this, I, along with a few of my teammates am participating in a Hackathon being organized by HERE. It's an annual company wide application development competition where all employees and interns are encouraged to come up with an innovative idea for an application. I came up with an idea for a trip recommender system using a number of open source APIs; navigation like that of HERE, travel like that of trip advisor and restaurant APIs viz. zomato, yelp etc. This application would use machine learning principles to suggest and plan out a vacation for a user, as per his choice of location. As my internship come to an end, I believe the entire process has taught me a lot, both on technical and non-technical fronts. I hope to cherish it for the years to come. I'm responsible for building an analyzer for GDF documents (they are the documents which store maps data), in the form of a java API. They'll help people building maps to analyze the geographical data collected. I was comfortable with Java, Software Design Patterns skills, but wasn't much familiar with coding as per the industry standards and my mentor helped me with it. I learnt how to write clean and maintainable code, by following some of the best Java development practices. My mentor, Mr. Paresh Patel is an architect in the team and a very experienced and knowledgeable person and helped me understand a few of these industry level coding practices. I got an insight of how maps are developed and maintained for navigation purposes.	
Here Maps - Distributed Data , Mumbai		2018-19-sem2

Company	Experience	Year
Here Maps - Distributed Data , Mumbai	Web-Graphics design using Node.JS, Three.JS and Ubers experimental graphics library- Deck.gl . Worked on improving HD Live Maps which rendered 3D structures of roads, barriers and poles along the road. Worked on animation and streaming through the scene. Tool used (Development tools - H/w, S/w) : JavaScript, Three.JS, Node.JS, Deck.GL, Socket.io Objectives of the project : Provide POC's for improvement of HERE HD Live Map Viewer Major Learning Outcomes : Learnt about web-programming, AGILE technique about software dev, computer graphics (OpenGL, WebGL) Details of Papers/patents : Brief Description of working environment, expectations from the company : Very friendly working environment, people are very approachable. Being an electronics student the IT environment was overwhelming at first, but you have to put in some effort to learn new languages, new software. The company does not provide any training but the mentors help with minor doubts. Always keep in mind, you cannot learn everything in your undergraduate and there will be always something or the else you will have to learn in the process to get your work done. A comforting thought is that all the employees around you (CS grad mostly) are learning new stuff too from MOOCS, GFG etc. So consider this the first taste of software development that awaits you after you leave the cocoon of BITS. Academic courses relevant to the project : OOP i guess (never took it , but basic coding syntax and vision of what you want to achieve is needed)	2018-19-sem2

Company	Experience	Year
Here Maps - Distributed Data , Mumbai	Completed training and Inference for Street Level Imagery parking sign model to integrate it with DV pipeline. Worked on post processing and correcting faulty output from in house text recognition service and making a rudimentary auto corrector for the same. Tool used (Development tools - H/w, S/w) : Tensorflow, Linux basics, Python basics, AWS functionality, Computer Networks, Transfer learning Objectives of the project : Integration into Deep Vision Pipeline, fine-tuned detection model for Street Parking signs, text recognition and autocorrection to add rich attribution Major Learning Outcomes : - Learned about amalgamting various sources of data for multiple degrees of verification and data enrichment from diverse sources. - Gradually imporving upon the quality metrics of DL model over several iterations using fine tuning of hyperparameters and essentially, more data. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : The working environment at Here is highly academic which makes is surprisingly relaxed. I was given the freedom to explore new techniques and solutions for the problem at hand and develop a solution at my own place. The code goes through extreme scrutiny before it is merged and you might have to engage with several components of the data pipeline before you can mark your project complete. You can choose to work on familiar problems or explore new ones as per your flexibility. Academic courses relevant to the project : Neural Networks and Fuzzy Logic, Machine Learning, Digital Image Processing, OOP, Computer networks	2018-19-sem2
Here Maps - Distributed Data , Mumbai	Brief write-up on PS-II station : Essential prerequisite courses required before working on the project Proficiency in Python, Elasticsearch, Kibana, PostgreSQL, and Advanced Excel, is required, Machine learning , basics of artificial intelligence, Python Python,AWS,Webex Api, Java, Scala, Elasticsearch, Logstash, Kibana, Spring Boot, HTML, CSS, JavaScript DSA, OOP, Neural network and fuzzy logics, Computer Programming, Symbolic Logic, Digital Signal Processing Python Programming, Computer Graphics, Basics of JavaScript, Machine Learning, Cloud Computing, NNFL, DSA, AI	2019-20-sem2

Company	Experience	Year
Here Maps - Distributed Data , Mumbai	Worked on Java, springboot application, aws lambda, ECS, S3. Tool used (Development tools - H/w, S/w) : Jdk-8, eclipse Objectives of the project : Enhancements to the tool/application the team has made. Major Learning Outcomes : Java, spring, VueJs, AWS, Hadoop. Details of Papers/patents : - Brief Description of working environment, expectations from the company : Flexible timings, great work culture and ethics, practicing agile. Academic courses relevant to the project : OOP, DSA	2019-20-sem2
Here Maps - Distributed Data , Mumbai	NLP and Neural networks training of model to predict the object present in an image and write a descriptive textual story in form of 3-4 sentences. Training Image captioning model was a very fun task to pull off. Tool used (Development tools - H/w, S/w) : TensorFlow, python, numpy, pandas Objectives of the project : Simplify the feedback process verification and keeping the map data fresh. Major Learning Outcomes : AI ML model training Details of Papers/patents : None Brief Description of working environment, expectations from the company : Very friendly and supportive people, work culture is attractive and enthusiastic. Flexible working hours and easily accessible resources. Academic courses relevant to the project : Computer programming, machine learning, neural networks and fuzzy logic	2019-20-sem2
Here Maps - Distributed Data , Mumbai	I worked on a project that involved the skills of Python and Machine Learning(Object Detection) it helped me to learn more about AI ML .Then in my second project I made a chat bot using RASA that needs the skills of NLP that something new that i learned during my work. Tool used (Development tools - H/w, S/w) : Python,ML,RASA Objectives of the project : To make a CHATBOT .Approximate placememt of Traffic Sign Major Learning Outcomes : How to use ML and AI Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : DSA,ML,OOP	2019-20-sem2

Company	Experience	Year
Here Maps - Software Testing, Mumbai	Testing of the Framework they have recently developed called Product Validation Framework. Tools used (Development tools - H/w, S/w): I wasn't part of development, just testing. Objectives of the project: To make this framework's working perfect, test each and every case and analyse the output. Outcomes of the project: Better Functioning framework. Major Learning Outcomes: Regular Expressions (was major part of my Testing), some basic SQL, rest of the part was UI based. Brief Description of working environment, expectations from the company: This is The Best working environment. 5 Days a week. No restriction on IN and OUT timing. And if you have minor health problem or any personal issue you can also work from home. People are very friendly and good in behavior. Its Perfect place to work.	2016-17-sem2
Here Maps - Software Testing, Mumbai	There are testing scripts used for confirming that every single facet of the Places data store and services are working perfectly. These tests are written in JMeter, but the team is migrating the scripts from JMeter to Automation Testing Framework (ATF) designed by them which is a spring based framework. My initial task was to understand the testing scripts and the systems they were testing and then to migrate those scripts to this framework. ATF reduces the amount of redundancy in code and is readable. My second task was to help in the testing of and in creating the rule sets for Product Validation Framework (PVF). The Places team has a product which is an XML containing the details of all the places of interest, the map locations that is to be delivered to the customer. The PVF is a UI based interface used for creating the rules to validate the XML product before releasing it to the customer. It uses Drools as the business rules management system. My task was to create the complex validation rules using the decision tables provided in Drools and to test the final product for its validity. Tools used (Development tools - H/w, S/w): Eclipse. Objectives of the project: 1.) Understand the testing scripts used for ensuring proper execution of all the services. Migrate the testing scripts to the Automation Testing Framework, a spring based Framework. 2.) Test the newly-developed Product Validation Framework. Add the more complex rules to the system using Drools and decision tables. Outcomes of the project: A hands on experience on working on a testing framework used by the Places data store. I was also involved in the testing of a developed software used for validating the product published by the Places team. Major Learning Outcomes: A	2016-17-sem2

Company	Experience	Year
	thorough understanding of Object Oriented Programming principles with a direct exposure to the spring framework used for building many enterprise applications and products. I got a lot of exposure to different areas of technologies used for creating the different services used by Places team (Hadoop, Solr, REST based APIs and architecture, etc.) and designing tests for ensuring proper functionality for each of these services. I also got an opportunity to get into the debugging aspect of software development which was something quite different and new to learn. Brief Description of working environment, expectations from the company: The Here workplace is one of the best places to work in terms of their hospitality, freedom to pursue whatever you want, everyone being approachable and the mentor's eagerness to help you and assist you in any way possible. There is a really good sense of camaraderie among the employees and it is a very friendly place to work in. In terms of expectations from the company, they do get quite a few good projects here and there. Most of their projects are either Web based service developments involving a lot of Angular or JS in general, or they are Java based projects focused on improving the already-existing services or building up on them. There are a few machine learning prospects here as well with the focus on trying to eliminate the human component from the map creation process.	

Company	Experience	Year
Here Maps - Software Testing, Mumbai	The purpose of my project was to create a convolutional neural network which should be able to classify the objects and detect their position in the aerial images. The purpose of this model is to reduce human input in map creation thus reducing the time needed to code the map and at the same time achieving considerable accuracy. My model consist of transfer learning of a pretrained deeplab resnet model (pretrained on pascal-VOC dataset having 21 classes) to my dataset of aerial images having 6 classes including background. Tools used (Development tools - H/w, S/w): Python 2.7, Tensorflow, AWS EC2 intances. Objectives of the project: To create a convolutional neural network for Image Segmentation of Aerial Images and train it. Outcomes of the project: Model has been created which can segment different objects from Aerial Images with good accuracy. Major Learning Outcomes: Concepts of machine learning, computer vision have been acquired. Brief Description of working environment, expectations from the company: Here Maps focus a lot on the overall development of the employees and therefore provide good learning opportunities on the technical side as well as non-technical side. Along with work there are many fun activities which make sure that employees have good work life balance. Here Maps expects interns to have appetite to learn new things and apply them in the projects. With a wide range of projects present in the organisation interns get great opportunities to learn various technologies.	2016-17-sem2
Here Maps - Software Testing, Mumbai	I developed the web application and android app for the creation and maintenance of the bus routes. Tools used (Development tools - H/w, S/w): Webstorm, Android Studio. Objectives of the project: Create Route Management platform for web and android. Outcomes of the project: Successfully completed the project. Major Learning Outcomes: I got to learn lot of new languages, technologies, frameworks like Javascript, Jquery, Angualr, typescript, android development and nodejs. Brief Description of working environment, expectations from the company: Working environment was very good my mentor was very helpful throughout the course of my project.	2016-17-sem2

Company	Experience	Year
Here Maps - Software Testing, Mumbai	The work done by me is mostly as a part of agile Software Development. Every sprint (15 days) a validation rule will be given to a developer who upon developing, Testing (on tools (here Proprietary), Peer testing, Integration Testing) the code, pushes it to the main code base. Being in such a team, first few days of my intern time went for understanding the map domain, how do they actually put the real time massive data into code bases and how do they structure, maintain and update it. After getting a fair understanding, i slowly began to code the rules on map data by taking help of colleagues and finally i have gained a decent pace in developing them. Later i began working on another side by project (involving python, ARCGIS) where i need to modify a tool schema which takes raw data as input and moulds them into json files required for another tool's ingestion. Over all its a decent and interesting work to me as there is always a scope of learning at HERE. Tools used (Development tools - H/w, S/w): Eclipse, SQL Developer, here proprietary tools. Objectives of the project: Software Development project, where we should be able to deliver the validation rules given to us every 15 days (Agile software development). Outcomes of the project: Creating the validation rules which are further used to validate the HERE Map Data, tools etc. Major Learning Outcomes: Learning about the Map Data, how they are made, maintained, updated. How things actually work on these maps. Brief Description of working environment, expectations from the company: The work Domain of the company is good in the sense that it provides all kinds of work from software testing, web/App development to machine learning, neural networks. Also being in a map domain, its interesting for any one to know how things actually work the way they do. The working environment also keeps its level up as to suit the working domain. Technical infrastructure, culture, peer interactions, stress busters, goodies nothing to complain about. This company has no such preference for branch, all it looks into is the ability to take up issues/tasks and successfully deliver them on time and possibly provide some optimizing/innovative solutions to the problems they face. I am sure this company helps in exposing the student to industry standards and will be of great learning exposure to student.	2016-17-sem2

Company	Experience	Year
Here Maps - Software Testing, Mumbai	When debugging any issues using IDE like eclipse or intellij, we use breakpoints. The code when debugged, can reach the breakpoint after a long time, depending on the steps to be executed prior to reaching the breakpoint. It is difficult to test such code with different values or with code changes. Integration tests cannot be written efficiently. To overcome this, if we can have a mechanism to serialize the state of all objects needed by the method(s) under test, it would be easy to test again multiple times without having to hit the database or execute all the prior steps. Tools used (Development tools - H/w, S/w): IntelliJ IDE, JAVA Instrumentation, JAVA Reflection, Git, Source Tree, MAVEN. Objectives of the project: Making use of JAVA reflection and serialization to reduce redundancy and faster debugging of lengthy JAVA code. Outcomes of the project: A debugging standalone application used to save the state of program. Major Learning Outcomes: JAVA Instrumentation. JAVA Reflection. Git. Maven. IntelliJ. Source Tree. Brief Description of working environment, expectations from the company: Nice environment. Good work.	2016-17-sem2

Company	Experience	Year
Here Maps - Software Testing, Mumbai	Worked on a software development project that was aimed at redesigning the architecture of the existing application and incorporating new technologies like AWS S3 bucket, Google Protobuf, Scala etc. The project required a good understanding of GIS domain. The application developed in this project creates a geographical dataset according to a specific standard, which used in many navigation systems for routing and geocoding. This application is light weight, faster and more memory efficient than the existing application. It was written according to the functional programming paradigm. Tools used (Development tools - H/w, S/w): Scala, Java, pl/sql, JDBC, git, maven, sbt, protobuf, Oracle Database. Objectives of the project: The object of the project was to redesign the existing application for better performance, reduction in number of operations resulting in faster delivery rates. Outcomes of the project: Successfully completed the implementation of one of the modules (out of 5) of the application. A performance gain of 3 was noted. Major Learning Outcomes: The new application was three times faster than the existing application. Functional programming paradigm was used which is much more readable. Brief Description of working environment, expectations from the company: Everyone in the team I was assigned to was extremely helpful and friendly. The organisation treats the interns as any of their full time employees. The learning opportunities are immense. Laptops are also provided by the organisation.	2016-17-sem2
Here Maps - Software Testing, Mumbai	My work was basically on image processing using opencv and Convolutional Neural Network. Although, there are not too many mentors for work related to images because most of the image related work of this company happens overseas. But you will learn a lot if you have any specific task to do related to image processing. Tools used (Development tools - H/w, S/w): Python, OpenCV. Objectives of the project: Template Matching using OpenCV, Object detection using Fast Region Convolutional Neural Network, Finding the number of lanes on the road in an image. Outcomes of the project: All objectives achieved. Major Learning Outcomes: PYTHON, OPENCV. Brief Description of working environment, expectations from the company: Standard IT culture and working environment and is still improving in Indian offices. Overseas offices have better projects than Indian Offices.	2016-17-sem2

Company	Experience	Year
Hike, Gurgaon	During Practice School 2, Second Semester 20152016, I worked at Hike Limited, New Delhi as an android developer for the Growth Team. The Growth Team at hike is focused foremost on acquiring new users and then to engage and retain them. Towards this end, the team continuously works on 'growth hacks' which are low cost engineering solutions to make the user discover hike features and fall in love with the app. As part of my project, I worked on implementing a number of such hacks for the hike android app. The primary skillset required for the project was android development. Whilst we don't have any related course on campus, it is easy to learn as it is Java based. I learnt it in hike itself during the first month of PS2. Other android developers at hike were very supportive in this regard. Technically I should refer to them as my mentors but with the camaraderie among us, it would be an insult to think of them as anything but friends. This is one of the most important things that I will be taking away from this PS2, new contacts and friendships which I hope will last a lifetime. To me the culture at hike will always be a definitive trait. There is a passion in everyone who works here which is highly contagious. Working at hike is definitely not a smooth ride. It is a rollercoaster with lots of ups and downs and some very difficult turns. But that is what makes it so much fun. I have had a very steep learning curve during this PS2, ranging from my programming skills to interpersonal skills. The industry operates on a completely different wavelength from what we assume or expect in college. The 5 and half months I spent here have helped me understand this and provided me a first hand exposure to work in an organization which is a pioneer of the industry and to contribute to a product which is being used by millions of users across the country. There aren't enough words to describe how gratifying and enriching an experience this has been. The best way to summarize this PS2 would be to say that before this I knew computer programming and now I know computer engineering.	2015-16-sem2
Hike, Gurgaon	Interning at Hike has been a very good experience. It helped me in preparing myself to face the challenges in my upcoming job. This duration of 5 months has been a great teacher in terms of corporate experience, learning new concepts and technologies, understanding start up culture and facing challenges at workplace. The training involves applying the concepts learnt in college. It gives the practical experience by working on real industry projects. It trains us for the	2015-16-sem2

Company	Experience	Year
	upcoming challenges to be faced in job. It helps us in understanding what kind of situations can occur at workplace and how to handle them. It also gives us the opportunity to learn new concepts and technologies and apply them practically at the same time. The whole internship is dedicated towards learning only. It is very useful for freshers who have never got the industry experience. It turns them into early risers from lazy slobs at college and also makes them responsible. Internship being slightly lenient from actual job gives the opportunity to focus just on learning as much as possible. The guidance from mentors at PS helps in learning easily. My experience has been very good in terms of this. My seniors were always ready to help me and guide me. Without their support, my learning experience would not have been so good. Employee experience is great; and it helps in building the initial industry base for future prospects. It teaches us how to work in a team, collaborate with team members and take ownership of tasks. Taking ownership of tasks helps in building confidence, personality, and knowledge and improves leadership skills. Things taught in college are just not enough. The industry is working on feats that are a century ahead of what is taught as academics. Sure, the basics are still the same; but constant learning is not a myth- it's the very reality we exist in and PS-2 has just been a reminder of the same. It also helped in learning quickly the new concepts and applying them in project. Working under deadlines makes us active and a quick learner. We get a chance to know about various tools and software being used in industries. The initial one week in the company was all study, but that is exactly what sets a tone for the next five months at office. I fully utilized that one week to learn Android but my concepts became clearer while working on the task assigned to me in the second week of internship. The practical experience makes learning more interesting. We read, try, do mistakes, again study and repeat. Also this gives us the opportunity to explore various other concepts during implementation of a particular concept. I have successfully completed Stickers Management and Promotion project that involved developing four features related to stickers. It involves: Delete Pack feature, Sticker Settings Refactoring, Shop Banner and Replacing ListView with RecyclerView. The first two features have been successfully shipped in market.	

Company	Experience	Year
Hindalco Innovation Centre - Semifab, Taloja , Mumbai		2019-20-sem2
Hindalco Innovation Centre - Semifab, Taloja , Mumbai	Strength analysis of architectural extrusion sections in window frames was done as the project. It consisted of deflection analysis, various loading conditions, buckling analysis and safety analysis. A study of aluminium tensile testing was done before the analysis. There are different kind of window sections made for different conditions and all have a different strength. The analysis was done based on Indian Standard Code and some reference books like Strength of Materials. Tool used (Development tools - H/w, S/w) : Universal Testing Machine (UTM), Advanced Excel Objectives of the project : To provide a safety measure of a window section. Major Learning Outcomes : Team work, research and development, academic research, analytical view. Details of Papers/patents : Brief Description of working environment, expectations from the company : Work environment was great. There is a good amount of industrial exposure that can be experienced here. The office was a two in one space with lab equipment on one side and working desk on the other. The employees of the department were very helpful. Academic courses relevant to the project : Mechanics of solids, Advanced mechanics of solids	2019-20-sem2
Hindustan Unilever Research Centre , Bangalore		2018-19-sem2

Company	Experience	Year
Hindustan Unilever Research Centre , Bangalore	I am continuing my internship here since last semester. Majority of my work revolved around synthesis of functional siloxanes for various applications feasible for home care category products. The synthesis of these compounds was carried out after testing out various reaction mechanisms and conditions. Then, different characterisation techniques were carried out to confirm the presence of the final compound. The biggest challenge was to separate the pure product from the reaction mixtures. So, after carrying out several experiments, we could separate the product through vacuum distillation. So, pure compounds with different ratios of amine content were submitted for performance verification. Alongside, modelling was continued from the last semester to understand the effect of head group and chain length of a surfactant molecule on the surface tension of water. This could lead to better in vitro modelling of surfactant systems to understand their effect on cleaning and stain repellence. Tool used (Development tools - H/w, S/w) : IR spectroscopy, Chromatographic techniques, TGA, MATLAB software Objectives of the project : Synthesis of novel funtional siloxanes Major Learning Outcomes : Chemical synthesis, Characterisation techniques, Modelling on MATLAB Details of Papers/patents : - Brief Description of working environment, expectations from the company : A 9-5 job. The pressure on understanding a phenomenon was very high, more than the results themselves. I was given freedom to work on my own ideas, if they had relevant literature backing it. Academic courses relevant to the project : Organic Chemistry - I, II, III, IV; Instrumental Methods of Analysis; Physical Chemistry - I.	2018-19-sem2
Hindustan Unilever Research Centre , Bangalore	Frictional properties of the surfactant solutions play crucial role in the designing of Home and Personal Care products. The objective of the current study was twofold (1) to establish a reliable and robust protocol to measure the friction coefficient between finger and glass substrate using the strain gauge-based sensor. The role of different parameters such as stroke frequency, Uni vs bi-directional stroke, static friction was studied. Protocol parameters were recommended to better differentiate the systems with smaller difference in COF. (2) the second part of the work focuses on the impact of different factors such as surfactant types, pH, alkalinity, viscosity, ionic strengths and skin hydration on the friction coefficient. Ionic and nonionic surfactants were chosen for the study, namely: (a) Anionic: NaLAS, SDS, SLES, MES, SLI, (b) Cationic: CPC, CTAB, (c)	2018-19-sem2

Company	Experience	Year
	Zwitterionic: CAPB and (d) Non-ionic: EO7 and Lutensol XL 60. Non-ionic surfactant showed higher frictional coefficient. Among the anionic surfactants, the COF trends were SDS<Na-LAS< MES=SLES<SLI. The trend was explained using the CMC and packing parameter of surfactants at the air/water interface. Cationic and anionic surfactants of comparable CMC showed similar COF. pH experiments showed COF was primarily governed by the reserved alkalinity of the system and not the pH. E.g., for same pH, sodium carbonate gave lower COF than sodium hydroxide. Skin hydration shows a maximum in COF. Viscosity decreased the COF which was in line with the learning from Stribeck curve that the viscosity increase shifts the lubrication regime from boundary to hydrodynamic regime. Tool used (Development tools - H/w, S/w) : Strain gauge load cell based sensors, fluorescence spectrometer, dynamic surface tensiometer, python and Matlab codes for analysis Objectives of the project : (1) to establish a reliable and robust protocol to measure the friction coefficient between finger and glass substrate using the strain gauge-based sensor. (2) the second part of the work focuses on the impact of different factors such as surfactant types, pH, alkalinity, viscosity, ionic strengths and skin hydration on the friction coefficient. Major Learning Outcomes : Physical basis of friction between skin and counter surface, methods of analysis of data sets, complexity of skin in physical phenomenon of friction, chemical modification of skin in presence of surfactant, role of surfactants in lubrication, regimes of lubrication Details of Papers/patents : Brief Description of working environment, expectations from the company : Number of driven individuals working in a variety of distinct but overall limited field. Learning opportunity from experts in different areas of research. Typical industrial research setting. Company expects minimum level of results to be presented on a regular basis. Academic courses relevant to the project : Engineering chemistry, Instrumental Methods of analysis, general chemistry, kinetics, Computer science, transport phenomenon	

Company	Experience	Year
Hindustan Unilever Research Centre , Bangalore	Modelling and simulation of a spray dryer Tool used (Development tools - H/w, S/w) : MATLAB, Python Objectives of the project : Modelling and simulation of a spray dryer Major Learning Outcomes : Understanding of spray drying process Details of Papers/patents : None Brief Description of working environment, expectations from the company : Relaxed work environment (in the digital team) . Can work at own pace. Employees are helpful. Academic courses relevant to the project : Modelling and simulation, machine learning, heat and mass transfer	2018-19-sem2
Hindustan Unilever Research Centre , Bangalore		2019-20-sem2
Hindustan Unilever Research Centre , Bangalore	I was assigned to the Digital Research and Development department. The work was based on Machine Learning applications. I worked on the project, "Application of Machine Learning in Chemical Engineering". Tool used (Development tools - H/w, S/w) : Star ccm+, python, MATLAB Objectives of the project : The objective was to show the prediction capabilities of Neural Networks. The program had to mimic the simulation soft-ware without being explicitly told about the physics behind the test case. Major Learning Outcomes : Basic programming on python, MATLAB and introduction to Machine learning. Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : Work environment is well suited for an intern. Work hours are flexible and the campus has all the facilities. People are helpful and the interns have freedom to make changes in the direction of the project they are working on as long as it is logical and feasible. Academic courses relevant to the project : Modeling and Simulation, CFD	2019-20-sem2
Hindustan Unilever Research Centre , Bangalore	Understanding complex phase diagrams of surfactants using rheology measurement as a tool and substantiation through microscopy/Static light scattering. 1) Studied about the Basic Properties of Surfactants 2) Studied about the Phase Behavior of Surfactants 3) Studied about the Microstructural Properties of Surfactants 4) Studied about the effect of Different Ratio of Surfactant Mixtures on Phase Diagram. 5) Studied about the effect of Addition of Organic Acid on Different Ratio of Surfactant Mixtures and then examining its Microstructural Properties. 6) Studied about the effect of Mixture of Organic Acids on different ratio of Surfactant Mixtures. 7) Studied about the effect of Adding Different	2019-20-sem2

Company	Experience	Year
	Concentration of Organic Acid in Same Surfactant Mixture. Tool used (Development tools - H/w, S/w) : Rheometer Objectives of the project : Understanding complex phase diagrams of surfactants using rheology measurement as a tool and substantiation through microscopy/Static light scattering. Major Learning Outcomes : Surfactant Phase Behaviour and Rheology concepts including flow and oscillation curves. Details of Papers/patents : Brief Description of working environment, expectations from the company : It has an environment that allows for the use and growth of our established skills and qualities. It highlights our desire to work in a team-oriented workplace and talk about our work-style and try to word our answer so that it blends in well with the company's vision. Overall it was fun, exciting, innovative and challenging task during my project tenure which I enjoyed. Industrial experience isn't just about working on projects or other academics related stuff. It is about the etiquettes and manners to work in a corporate environment, how to manage ourselves formally, learning to live by the company rules and regulations and learning to behave accordingly. That switch of lifestyle is what defines industrial experience. Also the capability to think out of the box, practicality as well as problem handling efficiency are also required tools for a successful career. The trained and experienced scientists over at HUL were extremely patient and understanding towards me in case I had any problem understanding a process taking place, just being in groups, listening to their conversations, deliberate meetings between the my mentor and other scientists did raise my intellectual levels and helped me to have a firm grasp over things happening and the day to day happenings in the plant. The concepts learnt previously actually started making sense. Working in this organization has helped me understand that in order to excel in what we do, we not only need to have great skills but also a good personality and right decision making ability. I will never forget my experience here. Academic courses relevant to the project : Engineering Chemistry, Material Science, Chemical Process Calculations and Chemical Engineering Thermodynamics.	

Company	Experience	Year
Hindustan Unilever Research Centre , Bangalore	This project was taken up as a part of home care department of Hindustan Unilever Research Centre, Bangalore. Certain rheological aspects of various surfactant systems were measured. Predominant behavior of the surfactant systems was determined and Viscosity Flow Curve measurements along with Herschel Bulkley modeling were used to determine the yield stress. Single surfactant systems and mixed surfactant systems of various concentrations were studied. Effect of counter ion on yield stress was also studied. Tool used (Development tools - H/w, S/w) : Rheometer, Centrifuge, Vortex mixer, Overhead stirrer. Objectives of the project : To study the basic properties of surfactants To understand the rheology and study viscoelastic behavior of various surfactant systems To determine the yield stress in commercially known single surfactant systems Major Learning Outcomes : Learned to operate rheometer and explored a bit into rheology. Learned the operation of couple of other instruments. Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : It's was overall a very good experience. A very good station for training in industrial research. Safety protocols were followed strictly	2019-20-sem2

Company	Experience	Year
Hindustan Unilever Research Centre , Bangalore	Zwitterionic surfactants have a strong interaction or complex formation with anionic surfactants in aqueous solutions. Mixtures of anionic and zwitterionic surfactants have been studied and show strong synergistic behaviour through their superior surface activities such as lower surface tension and critical micelle concentration, in comparison to individual surfactants at the same concentration in aqueous solution. The strong synergistic interaction between anionic and zwitterionic surfactants could be due to the strong electrostatic attraction between these molecules. So we conducted experiments to determine this quantitatively 1) We studied 7-8 surfactant mixtures and calculated their interfacial surface tension using spin drop tensiometer with two oils (sunflower oil and model sebum). 2) Then we calculated the critical micelle concentration to determine the impact of electrolyte on anionic surfactant and anionic / zwitterionic surfactant. 3) We studied adsorption on fabric (cotton) of anionic surfactatnt in the presence of zwitterionic surfactant to determine the change in its adsorption rate. 4) We tried to study three phase contact angle of anionic and zwitterionic surfactant system but time didnt permit further analysis Tool used (Development tools - H/w, S/w) : Spin drop tensiometer , Drop shape Analyser , PH meter , titration equipments , Objectives of the project : Study IFT and CMC for the surfactant systems – Anionic vs Anionic + Zwitterionic: Impact of zwitterionic surfactants on the adsorption of anionic surfactant on a cotton fabric. Three phase contact angle: understand the system and study LAS-ZI system for Major Learning Outcomes : We learned from our experiments that addition of zwitterionic surfactant to an anionic surfactant enhances the surfactant properties by lowering the surface tension , lowering the critical micelle concentration and by enhacing the rate of adsorption on a Details of Papers/patents : No papers published Brief Description of working environment, expectations from the company : This internship was an enriching experience . This research centre here has up to date equipments and the research undertaken here is ground breaking. There is a proper connection between the co workers and our mentors are easily approbable. Academic courses relevant to the project : The work which we did here needed strong grasp of the basic concepts of chemistry. Subjects related to this field : mass transfer , Engineering chemistry , Fluid mechanics , Numerical methods	2019-20-sem2

Company	Experience	Year
HolidayIQ.com, Bangalore	Product Management is an interesting upcoming domain in India. It requires us to be very customer centric with good problem solving skills and being creative. Before the PS Started, I heard lot of good things about this profile and I experienced all of that here. HolidayIQ is in a growth phase and are getting aggressive with Video Reviews of Hotel to differentiate itself from competition. When I started, I was pulled into Video Reviews. I started with talking to customers over phone, visiting them in hotels to get their views on our product. This is where I learnt the problems in our product and suggested the recommendation to the company. We implemented that and our exit rates dropped like a bomb. This was amazing for me as I could see the impact which is very difficult to witness in bigger companies. I was handling the mobile product. I designed things, coordinated with various stakeholders to make sure we are moving towards our goal. I learned how to scale things, what is material design, how to structure information, running various experiments and saw real time effects of them. In short, learned a lot about startups and how it works. Technically, all of this was great. From the managerial perspective, I was given freedom to take the decisions. For an intern, this amount of responsibility given to me is very rare to get. This experience was very enriching and I am very grateful to HolidayIQ for giving me this opportunity.	2015-16-sem2

Company	Experience	Year
HolidayIQ.com, Bangalore	My PS station is HolidayIQ Bangalore. I have been working here as a part of Product Development team. Past five and a half months have been an amazing learning opportunity for me. HolidayIQ.com is India's first & largest holiday information portal powered by thriving Indian traveller community & experts, enabling travellers to discover, plan holidays and share holiday experiences. HolidayIQ.com gives highly customized, rich information and insights on places, hotels, sightseeing and transport made uniquely relevant for the users. Currently users select a particular destination or a hotel by reading the reviews. They have to read reviews of different hotels in order to get a good understanding of the place and the various stay options in that location. This is very time consuming. We want to solve this problem and help user to find his or her desired location and stays in a quicker and better way. This project provides a user friendly way of deciding leisure accommodation instead of reading long reviews. We will display the unique pegs for every destination and hotels which will give the users a good insight about that place. I was also involved in monitoring and analyzing the current performance of the Holidayiq app, website and mweb through Google Analytics, enhance the usability experience of the user, conduct surveys to find out the insight and the heuristics that travellers use to plan their vacation, do competitive analysis of the other market leaders, find out new ways to automate the various redundant processes, keep a close eye on the travel industry and incorporate the new trends, measure the effectiveness of the new campaigns. Practice School experience has also helped us become familiar with the working environment of companies. We also got an opportunity to interact with and learn from the experts who already have a lot of experience of working in industry. The constructive feedback from them has helped us in developing new skills as well as refining other skills. Hence Practice school has provided us ample opportunity to implement the techniques learnt in classroom as well as learn new concepts. I sincerely believe that due to this hands-on experience we are now better prepared for the future and experienced gained here will help in smoother transition from academics.	2015-16-sem2

Company	Experience	Year
HolidayIQ.com, Bangalore	I worked with Analytics team and the purpose of my project was to understand Hotels & Stays business vertical in HolidayIQ. It involved a lot of assignments aimed at determining travel trends among Indians in Indian destinations. The skill sets required for implementing the project were basic knowledge of Google Analytics and advanced features of Excel. I acquired Google Analytics skills on my own by practicing and by using online tutorials, whereas the tutorials provided on Taxila by PSD were helpful in acquiring the skills of Advanced Excel. PS2 was instrumental in providing holistic experience and industrial exposure. It was a golden opportunity to learn how E-commerce industries function. Having done projects for six months really gives you proper insights of the organization which is otherwise difficult to understand in two months internships. Interning at HolidayIQ in itself was another experience. It is a travel start-up and the work culture is great. The mentors are amazing.	2015-16-sem2
Hortonworks, Bangalore	Added the capability of Apache Hadoop YARN docker containers to communicate with each other and the instances of Google Compute Engine (GCE). Required configuring of docker bridge network and routing in GCE. Added the capability of running System Services which are high priority services required during Resource Manager startup of YARN. Tools used (Development tools - H/w, S/w): S/w - Intellij IDEA. Objectives of the project: 1) To enable communication of docker containers with other docker containers and with the Google Compute Engine instances where the docker containers run. 2) Enable System Services startup in Apache Hadoop YARN. Outcomes of the project: 1) Enabled YARN containers to be run as docker containers on Google Compute Engine instances. 2) Enabled System Services to be started with Resource Manager in YARN. Major Learning Outcomes: Familiarity with docker, networks in docker and Google Compute Engine, Apache Hadoop YARN. Brief Description of working environment, expectations from the company: The working environment is very good. The company builds and upgrades a lot of Apache Hadoop components.	2016-17-sem2

Company	Experience	Year
Hortonworks, Bangalore	Worked on the project titled "Log Analysis using Machine Learning and Artificial Intelligence". Made several amendments to the existing project. Worked on validating the unsupervised algorithm used for clustering errors picked up from analyzing log files. Devised algorithms to compare two stack traces. Objectives of the project: To improve the fuzzy logic used to compare two arrays of strings and thereby classify them as similar or dissimilar. Make several enhancements to the existing codebase. Outcomes of the project: Enhancements added to the remote repository on Github have been pushed to production and are live now. Major Learning Outcomes: Was familiarized with Big Data and Hadoop concepts. Did hands-on implementation of a few machine learning algorithms and saw the results manifesting as a graph hosted on a dashboard. Brief Description of working environment, expectations from the company: The work environment is really good. The mentors and colleagues are very knowledgeable and helpful.	2016-17-sem2
Hortonworks, Bangalore	Wireframes Tools used (Development tools - H/w, S/w): UXpin. Objectives of the project: Design a workflow. Outcomes of the project: Wireframes. Major Learning Outcomes: Design. Brief Description of working environment, expectations from the company: Good work environment	2016-17-sem2
Hourglass Research , Mumbai		2018-19-sem2
Hourglass Research , Mumbai	Conducted patent searches to assess patetentability of inventions, study technology landscapes, other patent analytics projects. Tool used (Development tools - H/w, S/w) : Ms Word,Ms Excel,VB Objectives of the project : Conduct patent searches to assess patetentability of inventions, study technology landscapes, other patent analytics projects. Major Learning Outcomes : Details of Papers/patents : Brief Description of working environment, expectations from the company : Open office where all the employees are ready to help you in your project. The company expects you to understand complex technologies quickly and the ability to think independently and in a team to understand problems and suggest solutions. Academic courses relevant to the project : Basic understanding of concepts from various courses	2018-19-sem2

Company	Experience	Year
Hourglass Research , Mumbai		2019-20-sem2
Hourglass Research , Mumbai	Various activities like prior art searches, screening and categorization of patents, patent landscape analysis, technology scouting, patent infringement analysis, mapping own portfolio for impact analysis, mapping and generating EoUs for infringement analysis, creating patent digests and doing patent-ability searches were done as a part of this project. The different sections of a patent, life cycle of a patent, and the timeline of a patent were studied. Using search strings to create suitable search strategies was done as a part of this project. Proficiency in using software namely, Orbit Intelligence, Google patents, MS Office, etc., was also achieved. Tool used (Development tools - H/w, S/w) : Orbit, Google Patents and Microsoft Office Objectives of the project : The objective of the project was to have a first-hand experience of the Patent Analytics work and how it impacts the intellectual property assets. It included performing prior art searches, screening and categorization of patents, impact analysis, techno Major Learning Outcomes : Major learning outcomes included learning about patents and intellectual property, working of orbit, google patents and also included learning the methodology of prior art searches, landscape analysis, impact analysis, technology scouting, patent digest a Details of Papers/patents : None Brief Description of working environment, expectations from the company : The organization is a startup and the working space is a small office. Individual Working stations are allotted at the date of joining. The company provides all necessary amenities for the required work. Academic courses relevant to the project : None	2019-20-sem2

Company	Experience	Year
Hourglass Research , Mumbai	I worked on the various phases that an IP (mostly patents) goes through. Multiple projects on infringement cases, impact analysis, prior art search and digest generation were undertaken by me. Tool used (Development tools - H/w, S/w) : Excel, Google Patents and Obit Intelligence Objectives of the project : Get a basic idea of how the IP industry work. Basics of certain analysis tools used in the industry were also touched upon. Major Learning Outcomes : Excel, Google Patents and Orbit Intelligence Details of Papers/patents : Confidential data. Brief Description of working environment, expectations from the company : The work environment is very encouraging. The whole office is very supportive. The company expects you to be meticulous with your approach. You will mostly deal with patents. Developing a quick and detailed understanding of a patent is essential. Academic courses relevant to the project : Not Applicable	2019-20-sem2
iB Hubs , Hyderabad		2019-20-sem2
iB Hubs , Hyderabad	Business development of a Virtual Reality Product called iB Cricket Tool used (Development tools - H/w, S/w) : iB Cricket Game equipment - HTC Vive Set and Oculus Objectives of the project : Brand Management of iB Cricket Major Learning Outcomes : Being proactive in every task you take up. Working in a team and leading a team. Drafting business proposals Negotiations Setting up the processes Details of Papers/patents : Brief Description of working environment, expectations from the company : A very healthy ecosystem with a beautiful vision of making India a Global leader in Industry 4.0 technologies where integrity is the utmost priority to everyone and the culture, quality of the team here is the key which is boosting the company to create wonders across the globe. Academic courses relevant to the project : Organizational psychology	2019-20-sem2
IBM Security - Fiberlink , Bangalore		2019-20-sem2

Company	Experience	Year
IBM Security - Fiberlink , Bangalore	The project we did would fall under product development. It started out with knowledge transfer on Docker, Node.JS, the product architecture and workflow. The task given to us was based on using Ansible Tower APIs to configure/set-up remote machines or cloud. The project was implemented in Node.js and its extensive library. Unit tests were written to ensure the robustness and integrity of the program. Tool used (Development tools - H/w, S/w) : Ansible, Ansible Tower, Node.JS, POSTMAN, Docker Objectives of the project : Integration of IBM Cloud Automation Manger and Ansible Tower Major Learning Outcomes : Standard Coding Practices, Refactoring and revision of code, Collaboration using git, Documentation practices, Unit Testing, Globalization Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : DSA, OOP	2019-20-sem2
IBM Security - Fiberlink , Bangalore	Cam ansible integration, portal for testing department in ibm cps for testing purpose Tool used (Development tools - H/w, S/w) : Node.js, django, ansible tower , postman, jython Objectives of the project : Cam ansible integration, portal for testing department in ibm cps for testing purpose Major Learning Outcomes : Node.js django automation using ansible optimization of scripts while executive collectively Details of Papers/patents : Brief Description of working environment, expectations from the company : Work life balance and learnt some useful things good supportive environment Academic courses relevant to the project :	2019-20-sem2

Company	Experience	Year
IBM Security - Fiberlink , Bangalore	I was allotted two major projects and two mini projects in the Order Management System squad of IBM along with some learning and valueaddition courses.All of the projects were back-end related . First Projects was designing and implementing a customised quartz scheduler for IBM -OMS Back-end for their internal communication. We had to start the project from scratch and do the testing as well . After it's completion , I was assigned one project in new relic monitoring in which I was asked to convert the metric code to event code and then the detailed abstraction through NRQL . Mini projects were improving the code for onboarding customer in sim_microservices and sorting integers of 1 gb data (only 128 mb ram can be used) Tool used (Development tools - H/w, S/w) : Quartz Scheduler, Kong API, Hadoop ,Docker, Kubernetes, New relic tools Objectives of the project : making code more efficient and customer friendly Major Learning Outcomes : Improvement in debugging skills, learning new technologies ,softwares etc. Details of Papers/patents : Brief Description of working environment, expectations from the company : The manager was kind and gave projects based on our interests. You will learn about new softwares , technologies here but for the guidance from the senior engineers, you have to take the initiative. Academic courses relevant to the project : DSA, DBMS	2019-20-sem2

Company	Experience	Year
IBM Security - Fiberlink , Bangalore	For the first month, we were asked to learn how to use tools like Docker, Kubernetes, Protractor and many others relevant to the IBM OMS. We were asked to understand and propose a solution individually for some of the problems associated with IBM OMS. In this process, we were made to learn about the working of Supply Chain Management and how IBM OMS works. I was assigned to the Watson Order Optimiser team, a sub-unit of Order Management System, Bangalore team. My work involved creating frameworks to aid in testing various components of WOO and automating the testing process. The automation process was done using IBM's UrbanCodeDeploy environment. Protractor was used to write tests for WOO components known as Result Explainer and frontend UI. Alongside working on our projects, we were asked to complete certain IBM training courses and obtain certifications for the same. Tool used (Development tools - H/w, S/w) : Protractor, NPM, Eclipse, Allure Reporter, Selenium, Company provided laptop(Mac) Objectives of the project : Automate testing of Result Explainer and frontendUI Major Learning Outcomes : Usage of software tools like Protractor, NPM and functioning of Supply Chain Management. Details of Papers/patents : None Brief Description of working environment, expectations from the company : Work environment is great. Flexible work timings but have to get the work done on time. Choice of project was given to us. Team members are really helpful. Academic courses relevant to the project : None	2019-20-sem2
IBM Security - Fiberlink , Pune		2018-19-sem2

Company	Experience	Year
IBM Security - Fiberlink , Pune	I work with the Analytics team at the ISL IBM India, on the development and Data analysis part of the Identity Analyser called CIA. CIA uses data from applications such as IGI (IBM product) and others to detect risky users entitled to the application, making the manager's job easy. Tool used (Development tools - H/w, S/w) : Liberty, Docker, Zookeeper, Rest API, IGI, ISAM Objectives of the project : Build a PoC for the IBM product called CIA Major Learning Outcomes : Learnt to code in a professional way and learnt the legacy tools used in IBM Details of Papers/patents : Brief Description of working environment, expectations from the company : The environment was employee friendly. Expectation from company is chances for PPO Academic courses relevant to the project : Java	2018-19-sem2

Company	Experience	Year
IBM Security - Fiberlink , Pune	As this project was a new product design and development, the first stage into this project was to research about the technologies and the use cases. Next, was to have a feasibility check. To accomplish this, a proof of concept was developed. It mainly deals with designing, automating and attaching the identity and access management. The main goal of the project is to create multiple templates of workflows so that the tenant can choose from. The templates will define the systematic process definitions of various processes like, application creation, user on boarding and many more. This product would be made available as a service over the cloud. The end user of this product will be an IBM product by the name, Cloud Identity. In the future, it would be hooked to other IBM products. Tool used (Development tools - H/w, S/w) : Camunda BPMN Platform, DB2 database, Eclipse IDE Objectives of the project : The objective of the project is to provide, design, automate and attach identity and access management workflows over a cloud infrastructure for multiple tenants. Major Learning Outcomes : Interning at IBM improved my technical as well as soft skills. It improved my observation skills and boosted my confidence levels. The active interaction with the company employees, helped me learn more about other project fields and about the various cycles of development and delivery of a software product. While developing the project, we got an opportunity to learn about how identity and access management softwares work. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : IBM Security, Pune deals with identity and access management (cloud). There's a flat hierarchy which makes it easier to approach employees of all job roles. As an intern, the working environment was excellent. Projects are allotted to you based on your preference and your skill set. Academic courses relevant to the project : Object Oriented Programming, Database, Network Security	2018-19-sem2

Company	Experience	Year
IBM Security - Fiberlink , Pune	I have worked on developing a Method for Estimation of Unbalanced Mass and Torque Calculations of a Front Loader Washing Machine. Tool used (Development tools - H/w, S/w) : Matlab, CRO. Objectives of the project : 1) Estimate the Unbalanced Mass in Front Loader Washing Machine. 2) Calculate Torque on Drum Shaft. 3) Measure the Dynamic Torque on the Drum. Major Learning Outcomes : 1) Rotary Dynamics. 2) Working of Washing Machine. 3) Product Design of parts of Washing Machine. Details of Papers/patents : Brief Description of working environment, expectations from the company : IFB focuses more on Quality of its products. It has extensive communication between between various teams to achieve the Quality in terms of Meetings, tracking of work. It's a flat management here here and everyone report to their Managers and directly to HOD. More emphasis on Experiments can be observed. Academic courses relevant to the project : Dynamics and Vibrations, Engineering Mechanics, CAD/CAM, MATLAB.	2018-19-sem2
IBM Security - Fiberlink , Pune		2019-20-sem2

Company	Experience	Year
IBM Security - Fiberlink , Pune	The first Aim is to implement Sign in with Apple to apps and Websites.Cloud Identity Connect is an IBM owned identity governance Application written using "Java EE 8".It provides user/ corporations ,for their business,with various identity access management functionality,services and several third party services such as linkedin,google,facebook etc are consolidated into this application.Cloud Identity Connect currently serves no functionality for AppleIdentity as prior to the "Sign in with Apple 1.0 framework",Apple ID did not support this feature,but now with the release of this framework it is possible for users to sign into the third party applications with their AppleID.Corporations and Online Services across the world are integrating "Apple Identity" feature onto their respective platforms,so is IBM ElasticSearch is a database that stores,retrieves,and manages document-oriented and semistructured data.Cloudant is an IBM software product,which is primarily delivered as cloud based service.Cloudant is a non relational distributed database service of same name.Second Aim is to check how efficient ElasticSearch is over cloudant like how fast indexing can be done on elasticsearch,how fast querying can be done from elasticsearch as per requirements. Tool used (Development tools - H/w, S/w) : Elastisearch,Kibana, postman,gradle Objectives of the project : Efficiency of elastisearch over cloudant,sign in with apple implementation on local flow Major Learning Outcomes : Usage of cradle,softwares like elastisearch,docker,unit testing Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : DBMS,OOP	2019-20-sem2
IDeaS - SAS - Software Development , Pune		2019-20-sem2

Company	Experience	Year
IDeaS - SAS - Software Development , Pune	The work involved automation of video upload process. This was achieved by utilising Javascript, Bootstrap, REST Api and Spring JDBC and MySql to create a CRUD based system that takes input from user for the video links uploaded on secure cloud storage, store the links into database and modify them and later integrate them automatically into website as per their year,quarter and location Tool used (Development tools - H/w, S/w) : Eclipse, Tomcat Objectives of the project : Automation of video upload process for company's webapp Major Learning Outcomes : REST Api, MySql, Spring JDBC , Javascript, Bootstrap Details of Papers/patents : Brief Description of working environment, expectations from the company : There was a work/life balance for interns. Mentors and infact employees of company's are supportive. The project in itself are a great learning curve for beginners or people not from CS background but wont be much of a challenge for CS people. Academic courses relevant to the project : OOPS, APIs	2019-20-sem2
IDeaS - SAS - Software Development , Pune	I was given the task of integration of Google Analytics with the web application of one of the products of the company. This would help the developers and the support team in understanding the client behavior. I also worked on development of Auditing Mechanism for the application which will track the modifications done by the user to the data stored in the database. Tool used (Development tools - H/w, S/w) : Ember JS, SQL Objectives of the project : Integration Of Google Analytics with a Web Application and Auditing Major Learning Outcomes : Learnt About: Ember JS, SQL, Java Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment of the organization is extremely pleasant. The organisation is extremely helpful in assisting it's interns to learn new technologies and concepts. Academic courses relevant to the project : CS F111 : COMPUTER PROGRAMMING	2019-20-sem2

Company	Experience	Year
IDeaS-a SAS Company	Revenue Optimization Android and Web applications are both games to check the optimizing skills of the Revenue Managers and to check the general analytical ability of a person in recruitment and to simply promote IDeaS' optimizing capabilities. One can simply play with the application just by accepting the room bookings considering the rate and occupancy as constraints, to get the maximum RevPAR and Occupancy and can check their result with IDeaS. Java, Android development, XML, HTML, CSS, AngularJS, JavaScript, JQuery, JSON, Excel Solver Add in.Android Studio, IntellijIdea, Webstorm, MS Excel. Design and development of one Android and one Web application properly following UI/UX guidelines for marketing Revenue Optimization power of IDeaS- a SAS Company. In future, the application can also suggest the rates for a particular day and can be used as a knowledge to maintain revenue on daily basis. Using x API, we can also decide dataset depending on the user's efficiency. Application has also a scope of accepting Revenue on monthly basis.	2015-16-sem2

Company	Experience	Year
IDeaS-a SAS Company	The time spent here is fruitful and was able to learn a lot of things and played a significant role in preparing one for the industrial standards. It also prepares us to be comfortable in working with teams and under leadership. Practice school is necessary because it helps students learn new technologies and helps them get acquainted with industry standards. The 5 month duration of the Practice School provides us an opportunity for working on good and complex projects unlike summer internships. Being a product company working on Revenue management, you always get a chance to work on all aspects of software development. The management here is very friendly, helpful and always open to suggestions and welcome criticism. This is a good place for initial phase of industrial training and got a fun work place, focused on building a great product and a great culture with strong leadership. It also helps in maintaining work life balance and timings are somewhat flexible. It has a culture that fosters innovation, teamwork and professional enrichment. My project was to build a recruitment portal for managing recruitment tasks and generate dynamic reports for the HR department thereby decreasing redundant tasks. The portal generates some predictive analytic reports which helps the managers to review and improve their hiring process. The portal was built using technologies like bootstrap, JavaScript, angular, JQuery, Java, JSP, Servlets, Hibernate, MYSQL, and Junit. The domain of Revenue management is quite unique and interesting. This company is powered by SAS® and more than 25 years of experience, supports more than 7,000 clients in 94 countries and is relentless about providing more insightful ways to manage the data behind pricing and revenue optimization. This PS station is helpful if you are interested in working on Java technologies and learn new skills and technologies. They doesn't have any fancy stack and technologies used here are satisfactory.	2015-16-sem2

Company	Experience	Year
IDeaS-a SAS Company	The time spent here is fruitful and was able to learn a lot of things and played a significant role in preparing one for the industrial standards. It also prepares us to be comfortable in working with teams and under leadership. Practice school is necessary because it helps students learn new technologies and helps them get acquainted with industry standards. The 5 month duration of the Practice School provides us an opportunity for working on good and complex projects unlike summer internships. Being a product company working on Revenue management, you always get a chance to work on all aspects of software development. The management here is very friendly, helpful and always open to suggestions and welcome criticism. This is a good place for initial phase of industrial training and got a fun work place, focused on building a great product and a great culture with strong leadership. It also helps in maintaining work life balance and timings are somewhat flexible. It has a culture that fosters innovation, teamwork and professional enrichment. My project was to improve the testing automation of G3 application, a new and improved version of IDeaS's main application. The technologies used were like JavaScript, angular, JQuery, Java, JSON, Cucumber, Groovy, Hibernate, MYSQL, and Junit. The domain of Revenue management is quite unique and interesting. This company is powered by SAS® and more than 25 years of experience, supports more than 7,000 clients in 94 countries and is relentless about providing more insightful ways to manage the data behind pricing and revenue optimization. This PS station is helpful if you are interested in working on Java technologies and learn new skills and technologies. I did some work on my own learning Hadoop and Hive, as IDeaS allows us to improve our individual skills. They doesn't have any fancy stack and technologies used here are satisfactory.	2015-16-sem2

Company	Experience	Year
IDeaS-a SAS Company	Being a product company working on Revenue management, you always get a chance to work on all aspects of software development. The management here is very friendly, helpful and always open to suggestions and welcome criticism. This is a good place for initial phase of industrial training and got a fun work place, focused on building a great product and a great culture with strong leadership. It also helps in maintaining work life balance and timings are somewhat flexible. It has a culture that fosters innovation, teamwork and professional enrichment. During my internship in the company I have been a part of the tools team where my project title was Enhancements to the SWB – Support Workbench, it is a monitoring tool used internally in IDeaS by the iCare, ROA teams. This is a web application which primarily monitors the functioning of the main IDeaS Advanced Revenue Management Solutions Application. I have written test cases in Cucumber testing framework for 'Business Status Board' and 'Favorite Query' functionalities, Junit test cases in Spock framework in Groovy Programming language for the 'Favorite Query' functionality. Developed a new end to end functionality called 'Custom Home Page' which lets the user choose and set his most frequently used page as his landing page on the SWB. I have also worked on and resolved all the Blocker and most of the Critical and Major Sonar issues in the tool's code. I have written a Message Utility functionality supporting Dynamic HTTP messaging. In my time here, I learned new technologies such as Groovy Programming Language, Cucumber testing framework, Spock testing framework, struts, JSPs, Servlets, the concept of Sonar Violations etc. Regarding the future prospects of my project, every functionality I have worked on has been deployed already or will be deployed in the near future and will be used by iCare and ROA teams. The domain of Revenue management is quite unique and interesting. This company is powered by SAS® and more than 25 years of experience, supports more than 7,000 clients in 94 countries and is relentless about providing more insightful ways to manage the data behind pricing and revenue optimization.	2015-16-sem2
IDeaS-a SAS Company	Working in world-leading solutions for 5 and a half months had a huge impact on my professional career. The time spent here is fruitful and was able to learn a lot of things and played a significant role in preparing one for the industrial standards. It also prepares us to be comfortable in working with teams and under leadership. Practice school is necessary because it	2015-16-sem2

Company	Experience	Year
	helps students learn new technologies and helps them get acquainted with industry standards. The 5 month duration of the Practice School provides us an opportunity for working on good and complex projects unlike summer internships. Being a product company working on Revenue management, you always get a chance to work on all aspects of software development. The management here is very friendly, helpful and always open to suggestions and welcome criticism. This is a good place for initial phase of industrial training and got a fun work place, focused on building a great product and a great culture with strong leadership. It also helps in maintaining work life balance and timings are somewhat flexible. It has a culture that fosters innovation, teamwork and professional enrichment. I worked on multiple projects in the Tools team, which are enhancements to existing products and developing new features like Scheduling, ForgotPassword and more. Software Development is not just about writing programs to solve a real world problem. The solutions provided by a developer must be readable, understandable and maintainable. By following the Object Oriented Design principles and techniques one can create applications that are user & developer friendly. Java Enterprise Edition (J2EE) was used as a development kit and MySQL was the relational database management system (RDBMS) used for web application development during the course of this project. In my time here, I learned to work alongside other people and learn the true meaning of teamwork. There are standups and demo days in which you can showcase your projects and ideas, and it's a wonderful feeling getting applauded from everyone and getting suggestions for improvements. The domain of Revenue management is quite unique and interesting. This company is powered by SAS® and more than 25 years of experience, supports more than 7,000 clients in 94 countries and is relentless about providing more insightful ways to manage the data behind pricing and revenue optimization. My major accomplishment here does not include any medal or certificate but the trust and confidence that everyone at IDeaS showed in me.	
IFB Industries , Goa		2019-20-sem2

Company	Experience	Year
IFB Industries , Goa	I was a part of the IoT implementation team at IFB Industries. The plant manufactures washing machines. My project concerned the development of a real time, automated and centralised data monitoring and processing setup for the washing machine drum production line. The purpose of the project was to gather production and operator data continuously and store for further analysis on a dashboard. The project was envisaged to be an important step for in-house Industry 4.0 implementation. I was responsible for developing an automatic data logging configuration on a Mitsubishi PLC using ladder programming. I also developed a python script for a backend cron job to import data from the PLC and process it to give out the KPIs of the drum production line and store the data on MySQL database. My contribution to the project consisted of two stages-prototype stage where the proof of concept was demonstrated and then the actual deployment stage. Tool used (Development tools - H/w, S/w) : Hardware: Mitsubishi Q-series PLC, proximity sensors and other electrical components Software: Mitsubishi PLC software tools for ladder programming and data logging (GX Works and Data Logging Configuration Tool), Jupyter Notebook for Python scripting, MyS Objectives of the project : To develop a real time, automated and centralised data monitoring and processing setup for the washing machine drum production line Major Learning Outcomes : 1. PLC programming and working of PLCs and other electrical components 2. Basic Python scripting especially use of Pandas library in handling data Details of Papers/patents : none Brief Description of working environment, expectations from the company : The working environment is one of the best I have experienced. My mentors and other seniors at IFB are extremely receptive and supportive of interns' ideas and their work. Academic courses relevant to the project : Mechatronics and Automation, Computer Programming	2019-20-sem2

Company	Experience	Year
IFB Industries , Goa	Built an Augmented Reality App for IFB. The Augmented Reality App was created so that users could browse all the products and select any product to view it in 3D downloaded from cloud. Users could move, rotate & scale the 3D model and also see the Dimension in 3D. 3D & 2D features were also implemented. Users could also buy the product within the app using dynamic prices. Tool used (Development tools - H/w, S/w) : Unity, 8th Wall, C# Objectives of the project : Build an Augmented Reality App for IFB Major Learning Outcomes : Full Stack App Development, Android App Development, iOS App Development, Game Development Details of Papers/patents : Brief Description of working environment, expectations from the company We were offered autonomous control over the progress of our projects and were offered the required resources needed to complete the same. Total control meant we could learn the in & out of processes involved in development of full life cycle of product. We were given enough opportunities to get involved in other projects of our interests too. All in all, we learnt what it takes to build a product from scratch to completion. Academic courses relevant to the project : Data Structures & Algorithms, C++, Object Oriented Programming	2019-20-sem2

Company	Experience	Year
IFB Industries , Goa	The project allotted to me was "Runout Testing Automation and Data Acquisition System" . In the project i had to design a system which would automatically collect data from the part and store it in an online server from where the data can be retrieved as and when needed. The work was broken down into 3 parts. The first one was the design of the fixture using which the data collection points will be detected. The fixture components of the shaft holder , the positioner and the clamps were designed strategically so that the data from the part can be easily acquired. Also the design was made in such a way that there is an ease for placement and removal of the part. The second part of the project was to design the data collection system. For this the sensors were selected that would be helpful for the data collection process. Also the PLC was selected and the coding was done for the control of the system.the third part was the data storage. The components and the coding for the database and the online cloud based FTP server was done which would store the data and would allow the company to access it when needed Tool used (Development tools - H/w, S/w) : Fusion 360, GT Designer3, MySQL Objectives of the project : The objective of the project is to develop an automation system which employs 100% testing of the parts and stores the data which can be analysed in the future Major Learning Outcomes : Fixture Design, PLC Programming, SQL Database formation, FTP Server Setup Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment in the company is very professional and work focused. everyone in the company is always accessible for help and are ready to help with your problems. Almost all the necessary resources were provided by the company for my project and any other needed was tried to be met if possible. The mentors took reviews regularly to make sure we were on the right track and provided much needed guidance regarding the problems from their real world working experiences which added to our experience and thus made our project better. In all I would say that the company is great and very helpful and you would be free to show your talent in the project that you have been allotted. Academic courses relevant to the project : Mechatronics and Automation, Machine design and drawing	2019-20-sem2

Company	Experience	Year
IFB Industries , Goa	Mine was a group project, we worked on the transportation bolts of a washing machine. We collected the same component used by different companies across their variable models and studies their effectiveness in their job. Then made a 3D model for IFB machine and then fabricated the component and tested it. Tool used (Development tools - H/w, S/w) : Solid works, 3D printer, Lathe and drill machines, hacksaw and file, shipping tests equipment. Objectives of the project : The transportation bolts used in the IFB washing machines is same for 6 and 8kg machines and the load in 8kg machines is too much for them to bear and the damaged during testing, incurring a huge loss to the company. Major Learning Outcomes : We learnt about the components and working of washing machines, the quality tests done to ensure the same and the way the development of a particular component works in the R&D. Details of Papers/patents : - Brief Description of working environment, expectations from the company : The employees are supportive and friendly. Academic courses relevant to the project : CAD, Mechanics of Solids, Mechanical design and drawing, Production Techniques.	2019-20-sem2
IFB Industries , Goa	Studied the basics of machine learning . Used this concept to train a model on collected data to predict the variables required using python. Tool used (Development tools - H/w, S/w) : Machine Learning, Jupyter notebook, Python Objectives of the project : Predicting the optimal drying time of a washer dryer machine using machine learning Major Learning Outcomes : Machine learning basics, Python basics , Data study Details of Papers/patents : . Brief Description of working environment, expectations from the company : Helpful mentors and colleagues. Efficient working expected Academic courses relevant to the project : .	2019-20-sem2
IFB Industries , Goa	Established a Data acquisition system for production lines using PLCs and developed a web based dashboard with screen friendly aperture for various devices and connected them over a single IoT network making a one stop data station. Tool used (Development tools - H/w, S/w) : PLCs, Django, Xampp Objectives of the project : To fullfill the data gathering step in IIoT Major Learning Outcomes : Industrial Automation, Full stack development Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Mechatronics, OOP	2019-20-sem2

Company	Experience	Year
IFB Industries , Goa	Quality analysis of inlet filter of magnetic feed valve of both Top Loader and Front Loader Wahing Machine. Collecting the data regarding the component failure happenning in different parts of the washing machine to analyze the failure rate of the inlet magnetic valve. Variation in failure as per the geographic locations. Analysis of water quality and product life cycle. Analysis of the different filter geometries to improve the quality. Geometry analysis was done by Modelling CFD-DEM Coupled analysis on the different filter geometries present.A vitrual environment where dirt particles are passed along the water in the fluid domain of the filter using simulation in Star CCM+.Particle count is the main parameter to find the clogging rate of the filter geometry.Finally improving the overall quality by modelling a new prototype of the filter geometrywhich will have an extended life cycle. Tool used (Development tools - H/w, S/w) : Autodesk Fusion 360,Autodesk Inventor,Star CCM+,MS Excel. Objectives of the project : Quality improvement of the current filter geometry. Major Learning Outcomes : Learning Discrete Element Method(DEM),CFD-DEM couple flow,data analysis using excel,pareto analysis,professionalism,working in a team. Details of Papers/patents : Brief Description of working environment, expectations from the company : IFB has a vibrant atmosphere to work in.People are always eager to help out in any problems that I faced.A positive environment which brings the best out of an employee. Academic courses relevant to the project : product Design,CFD	2019-20-sem2
IMI Mobile R&D , Hyderabad		2018-19-sem2

Company	Experience	Year
IMI Mobile R&D , Hyderabad	Digital Humans: Idea is to build a video version of chatbot that customer can interact with and is more engaging. This will give chatbot a personality and the ability to show emotions at a visual level. This will be made in unity and requires making complex graph of animations with transitions. Tool used (Development tools - H/w, S/w) : Unity, Blender, Oculus Rift, Oculus Go, IMIbot.api Objectives of the project : Digital Humans: Idea is to build a video version of chatbot that customer can interact with and is more engaging. This will give chatbot a personality and the ability to show emotions at a visual level. This will be made in unity and requires making complex graph of animations with transitions. Major Learning Outcomes : I learned Unity, C#, as well as learned in great depth about Virtual Reality and how make applications in different VR devices like Oculus Rift. I learned about State Machines and Animations and product development. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working Environment is very good. People are nice and helping. Office timings are very flexible. Academic courses relevant to the project : College doesn't offer any courses related to this project.	2018-19-sem2
IMI Mobile R&D , Hyderabad		2019-20-sem2
IMI Mobile R&D , Hyderabad	Back-end development of new Natural Language Processing Nodes (Intent and Entity) and experimenting with methods to auto select algorithms based on data Tool used (Development tools - H/w, S/w) : Java,Python,Snorkel,Flask Objectives of the project : 1. Building of new NLP nodes for intent and entity recognition 2. Create an heuristic for Auto selection of Algorithm for Intent Node 2. Major Learning Outcomes : 1.software engineering process 2.Machine Learning and Meta learning 3.Synthetic data generation using snorkel 4. API using flask Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Software engineering,DSA,Machine Learning, OOP	2019-20-sem2

Company	Experience	Year
IMI Mobile, Hyderabad	During my practice school 2 duration at IMImobile, I have learnt a lot of things which will be useful for me at a later time. Learning curve I have made here is not about gaining knowledge of new software technologies and tools. It is about building interpersonal skills and understanding how to sustain the business and ironing out the troubles faced during the journey. I understand many issues can be sorted if proper communication is present among people of team. The people around me in the team I was allotted to work are friendly and approachable to ask anything. When I came to this company I have no basic knowledge of the technology and software they use, the mentors have helped me understand and gain deep insights in to it. The people in my team enjoy the work they are doing and when you enjoy anything it will be fun working with them.	2015-16-sem2
IMI Mobile, Hyderabad	During my internship at IMIMobile I understood how an organization works at different levels. I have made new acquaintances from whom I learnt bot technical and personal skills. I have been assigned projects in programming domain through which my overall coding and debugging skills have improved. I have developed websites and some other scripts in Java collaborating with the employees at IMIMobile who helped me to solve and learn many issues with the softwares I develop. This internship helped me a lot developing my personal and technical skills.	2015-16-sem2
IMI Mobile, Hyderabad	The Overall experience at IMImobile, Hyderabad was good. The internship here was a useful experience. I have gained knowledge, skills and met new people. I got insight into professional practice. I learned different facets of working in an organization. I experienced that managing operations, as in many organizations, is an important factor for the progress of projects. As a part of my job I got an opportunity to meet with prominent personalities in the corporate world and it helped me stretch my boundaries of understanding and Strategic planning. I would like to thank BITS Pilani for providing me with this opportunity and our PS Instructor Mr. T.V.Rao for his guidance & support throughout my internship.	2015-16-sem2
IMIdigital R&D , Hyderabad		2019-20-sem2

Company	Experience	Year
IMIdigital R&D , Hyderabad	GUI DESIGN & BACKEND INTEGRATION GUI design includes planning and designing the architecture of the components in the application developed. Backend integration involves making the data transmission in application using the required protocol and synchronizing them perfectly with GUI. Tool used (Development tools - H/w, S/w) : NETBEANS,WIRESHARK Objectives of the project : The developed Application is IMS/RCS client with supporting SMS, CHAT and File-Sharing using SIP and MSRP protocol and audio and video using RTP . Major Learning Outcomes : Learnt many protocols like sip,msrp and Rtp Details of Papers/patents : Not known Brief Description of working environment, expectations from the company : The work environment is very friendly.Mentor and Manager are very supportive.The assigned Components should be completed on time. Academic courses relevant to the project : Computer networks,Object oriented program	2019-20-sem2
IMS Health , Bangalore	Student	2018-19-sem2
IMS Health , Bangalore	Dissertation-development,optimization and characterization of erlotinib hydrochloride nanoparticles using QBD approach Tool used (Development tools - H/w, S/w) : Zeta sizer, HPLC, DSC, Homoginizer, Ultrasonicator, centrifuge Objectives of the project : To perform the design of experiments and to proceed with the statistical approach for the understanding of the factors which played a major role in the preparation of the right formulation Major Learning Outcomes : Factors effecting the formulation Details of Papers/patents : None Brief Description of working environment, expectations from the company : None Academic courses relevant to the project : None	2018-19-sem2
IMS Health , Bangalore	Work basically included collection of data from different sources, usually called secondary market research. Tool used (Development tools - H/w, S/w) : Google search engine, company websites, university websites, linkedin, etc. Objectives of the project : To collect data for the given task Major Learning Outcomes : - Details of Papers/patents : - Brief Description of working environment, expectations from the company : Good working environment and expectations include -Efficiently collecting data, filling the details in the given sheets,etc. Academic courses relevant to the project : Clinical research, Biostatistics and computer applications.	2018-19-sem2

Company	Experience	Year
IMS Health , Bangalore	The primary responsibility was secondary desk research in areas like KOL identification, Market Access, Disease Burden and Competitive Intelligence. Tasks include obtaining information, compiling and formatting of the data obtained into a proper format. Tool used (Development tools - H/w, S/w) : MS Excel, MS Power Point Objectives of the project : The main objective of the work was secondary desk research. It involved obtaining the required information from a myriad of online sources. This process was followed by collating the data thus obtained, formatting and presenting them in required format. What we did in the PS center was only the data collection part of all the projects handled. It is only one of the many steps involved in the duties of a business analyst. Major Learning Outcomes : MS Excel Details of Papers/patents : Brief Description of working environment, expectations from the company : Good work environment and flexible timing. Academic courses relevant to the project : Pharamacology, Advanced Physical Pharmacy	2018-19-sem2
IMS Health , Gurgaon		2018-19-sem2

Company	Experience	Year
IMS Health , Gurgaon	I was under the team of Primary Intelligence Delivery Center. Learnt about the differences between Customized Market Research and Syndicated Market Research. My main focus was upon Syndicated Market Research. It was overall a very good working experience for me. Learnt a lot 😃 On the other hand, I also attempted to help my manager to make a design template (a training catalog) for the corporation, like what they have to offer to the aspiring interns, for learning about the needs of the company (specifically for the PIDC). Tool used (Development tools - H/w, S/w) : Company had provided us with Laptops and very good access to the internet connectivity. Objectives of the project : To learn about the various syndicated offerings of US-based as well as India-based market research companies under IQVIA space. Major Learning Outcomes : Learnt how to identify white spaces and gaps, i.e. where a company misses out on, which offerings are they lacking, that other companies (competitors) are serving their customers (clients) with. Basically to identify strengths and weaknesses. Details of Papers/patents : Brief Description of working environment, expectations from the company : Overall the experience that I had was good. Met a bunch of great people. 😃 Although I struggled to learn about the needs of the company in the beginning of the training, I have learnt quite a good amount 😃 by constantly doing research. Academic courses relevant to the project : To be honest, there were not any Academic Courses that I took in my early semesters that actually matched the project that I did. A totally different research and learning (outside my academic curriculum)	2018-19-sem2
IMS Health , Gurgaon	I have done feasibility studies, secondary reasearch, prepared syndicated reports on different therapy areas, kOL profiling twitter networking map), extracted data from the crimson hexagon for different projects Tool used (Development tools - H/w, S/w) : Crimson hexagon, buzzsumo, similarweb Objectives of the project : Qualitative and quantitative analysis of unsubstantiated health related articles on social media Major Learning Outcomes : Learnt MS Ppt and excel and other tools Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Working environment is good and all the employees are very helpful. Learnt so much about how to generate social media insights for various pharmaceutical companies. Academic courses relevant to the project : None	2018-19-sem2

Company	Experience	Year
IMS Health , Gurgaon	Competitor Analysis of IQVIA, in the Syndicated Primary Market Research in US/Healthcare Market Space Tool used (Development tools - H/w, S/w) : Office provided Laptops Objectives of the project : To identify white spaces (gaps) within the syndicated offerings of IQVIA and its competitors Major Learning Outcomes : This project helped us in analyzing the market space of the competitors and identify new opportunities for IQVIA to gain advantage over the competitors. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Not Applicable, as the project was entirely for the business purpose of the host organization	2018-19-sem2
IMS Health , Gurgaon	Quantification of the information by using openended coding Tool used (Development tools - H/w, S/w) : MS-Powerpoint, MS-Excel, MS-Word Objectives of the project : To provide clients with the healthcare related statistical data Major Learning Outcomes : Analysis of the Healthcare market Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Working environment is healthy and my expectation is just a pre-placement offer by the company as i worked for the company by putting my heart and soul together and hence, I think that I deserve it. Academic courses relevant to the project : Pharmacology, General Mathematics 3	2018-19-sem2

Company	Experience	Year
Indiamart Intermesh Ltd., Noida	Work on the maintenance of hygiene of the Product. Prepare weekly and Monthly report for the purpose of sharing useful insight of current stage of product and how can us improve the process. Tools used (Development tools - H/w, S/w): Google Analytics, MS Excel, Google docs, Jira tool for reporting bug. Objectives of the project: The scope is to improve the search processes and methodology performed at the IndiaMART by applying efficient work processes (work done by people, equipment and information systems). Benchmarking essentially works to the extent that benchmarks can be agreed and suitable comparators found for which measurements are also available. Outcomes of the project: Increase in the effectiveness of search and Auto search process and proposed UI/UX changes as compare to other B2B websites.Establish search scope suggestions on the basis of benchmark search parameters.Adopt better UI design from various competitors for search and advance search processes.Improvements in accuracy/relevancy of search by reducing the performance gap. Major Learning Outcomes: Learning of Excel skills, Data analytics skills, Tools like Webmaster and Jira, Team management, PR value. Brief Description of working environment, expectations from the company: A very good working environment with helpful and supporting colleagues and seniors. Good management and HR staff and maintain transparency in the process. Working in team gives me best experiences. As Indiamart is largest B2B online marketplace so it would give me best opportunities in future and opens doors to E commerce fields. It would definitely improve my analytics and management skills which would help me and my organization for mutual benefit and support.	2016-17-sem2
Indiamart Intermesh Ltd., Noida	I have worked in various areas where I started with preparing an Employee Engagement Plan for the company that was new for it as well required to keep the employees of this place satisfied, happy and content. I also worked on my other project which was assisting the product manager in 'Improving the customer Life Cycle'. In IndiaMART we connect the buyers with the sellers and these sellers are IndiaMART's client or customer. To make the experience of supplier good with IndiaMART while he registers with us and contact buyers through the catalog formed by IndiaMART, we are finding the issues in the present system and trying to rectify those in order to make this process smooth. These issues are present in communication sent from IndiaMART or in various services	2016-17-sem2

Company	Experience	Year
	provided to the supplier. I also got a chance to work on a digital marketing field which was 'email marketing'. Here I dealt with communicating with our suppliers for upselling them our products through emails. This process involved creating content, changing htmls and subject lines of the emails sent to our suppliers regularly for various products. It also involved creating and submitting a report on the weekly performance of our mails sent to suppliers indicated through click rate, open rate achieved and also the revenue collected. I also focused on various ways to make our mailers land in Primary tab of Gmail in order to increase our click rates. Tools used (Development tools - H/w, S/w): Microsoft Excel, Moqups, Notepad++ and html. Objectives of the project: Objective of my 1st project (Employee Engagement) was to create an Employee Engagement Plan that'll help in making the employees more happy, content and satisfied in their work. The objective of my other project (Email marketing) was to increase our click rates and open rates in order to increase more traffic through emails. Outcomes of the project: I prepared an Employee Engagement plan where i introduced some new ideas in fields of "Engagement Activities" and "Rewards & Recognition". In my other project, (email marketing) i worked on several new ideas that led to increment in our click rate as well as open rates. Major Learning Outcomes: I learnt working on several tools like html, moqups, Microsoft excel. I learnt about various loopholes that we are having in our system which is hindering the smooth supplier life cycle process in Indiamart. I also learnt about various email marketing techniques and how we implement those. Brief Description of working environment, expectations from the company: Employees of the company are cooperative and coordinating. My team members constantly guided me throughout my project and provided their help wherever needed. People are rewarded for their performances and also given opportunity to work in different teams and thus learn a lot. So far, IndiaMART has been able to keep up with my expectations from it and i hope it continues to remain the same way.	

Company	Experience	Year
Indiamart Intermesh Ltd., Noida	Front end web development for OEM partners to view their sales related data. Tools used (Development tools - H/w, S/w): bootstrap, jquery, D3 Objectives of the project: To have an interactive visualisation of data to the customer Outcomes of the project: To have an interactive visualisation of data to the customer Major Learning Outcomes: javascript, bootstrap, jquery implementation Brief Description of working environment, expectations from the company: Good startup working enviroment with good work to do.	2016-17-sem2
Indian Institute of Petroleum , Dehradun		2019-20-sem2
Indian Institute of Petroleum , Dehradun	Exploratory work on the interaction of microwaves with sparks from a spark plug. Various experimental setups were put up in place in a logical manner, so as to observe and study multiple-point plasma generation by the above mentioned interaction. Many of these setups needed custom hardware, which were designed by me and fabricated under my direct supervision as well. Tool used (Development tools - H/w, S/w) : Ignition Coil, Spark Plug, Microwave, Driller, Shearing Machine, Hand Cutter, Grinder, Soldering Machine, DC Power Supply. Objectives of the project : To observe and study the generation of multiple-point plasma. Major Learning Outcomes : 1.) Direct exposure of spark to microwaves won't produce plasma. 2.) There was some corona discharge related problems in one of the setups, the solution to which I devised, and it worked. 3.) Designing and fabrication of different hardware needed for sett Details of Papers/patents : None. Brief Description of working environment, expectations from the company : Very Supportive staff over all, be it the Project Assistants to Senior Scientists. Academic courses relevant to the project : Production Techniques-I, Production TechniquesII, IC Engines, Mechanics Oscillations and Waves, Thermodynamics, Electrical Sciences.	2019-20-sem2
Infinera , Bangalore		2018-19-sem2

Company	Experience	Year
Infinera , Bangalore	ASIC design-Designing of a generic alarm hierarchy IP Tool used (Development tools - H/w, S/w) : Synopsys tools Objectives of the project : Designing a generic alarm hierrachy block that supports TDMised and Non-TDMised flow of data Major Learning Outcomes : RTL design using Verilog, LINT,PIF configurations and API calls Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is good. Mentors teach from basics. Entire team is very helpful. Knowledge of digital design is essential. Student should be flexible to work on any projects. Academic courses relevant to the project : Digital design,VLSI design,Advanced VLSI design	2018-19-sem2
Infinera , Bangalore		2019-20-sem2
Infinera , Bangalore	The main project of mine was based around verification of the IP's . First the verification was based on System Verilog so that all the concept are refreshed and than we adopted the UVM, the industrial standard. I was also given a formal training under the instructor regarding this. I also worked on few side project like writing a perl script for verification of port connectivity and a python script for automation of workq Tool used (Development tools - H/w, S/w) : System Verilog , UVM , perl , python Objectives of the project : Verification of a dual port memory Major Learning Outcomes : The whole flow of making of any chip , the guidelines and the approach towards verification of any module or IP. Details of Papers/patents : Brief Description of working environment, expectations from the company : Great working environment and the most of the team is made up of Bitsian's only. You will be constantly mentored and everyone involved would be pretty approachable. Flexible working hours as long as you are meeting the deadline of the project . You can learn pretty much everything there regarding the whole flow of creation of any chip Academic courses relevant to the project : Advd , Comp Arch. DD	2019-20-sem2
Ingersoll Rand India Ltd , Bangalore	Student	2018-19-sem2

Company	Experience	Year
Ingersoll Rand India Ltd , Bangalore	The products considered for study are 14 SEER, 2-5 tonne packaged heat pump models. These models are used for both heating and cooling applications. Micro-channel Heat Exchanger(MCHX) is used in the indoor side of these units. MCHX is either used as an evaporator or an condenser depending whether the heat pump system is in cooling or heating mode respectively. The aim of the project is to increase the capacity of MCHX. It is achieved by increasing the air side Heat transfer Coefficient. Air side heat transfer coefficient can be increased by adding fins or creating rough surfaces. In this Project air side heat transfer is enhanced by adding surface roughness (in the form of grooves). A small part of MCHX is modelled in creo, to analyze the present heat transfer and pressure drop in ANSYS Fluent. This modelled MCHX is imported into ANSYS Workbench and simulated in ANSYS Fluent to calculate the present heat transfer and pressure drop. From the solution reports it can be observed that because of grooves there is improvement in heat transfer coefficient by 5% due to increase in effective surface area. The increase in pressure drop from plain-tube to grooved-1-tube was found to be 2.9% because of increased turbulence. But from plain-tube-surface to grooved-2-tube-surface the pressure drop increase was only 1.19% because grooved-2 profile was little rougher and had more surface area than grooved-1 profile. Therefore Grooved-2-tube-surface can be selected for optimum heat transfer and pressure drop. Tool used (Development tools - H/w, S/w) : Creo, ANSYS Fluent Objectives of the project : Improvement in Performance of Micro-channel Heat Exchanger Major Learning Outcomes : Learnt about heat exchangers, Gained practical knowledge on heat pump systems Details of Papers/patents : -Nil Brief Description of working environment, expectations from the company : Very Friendly management, flexible working hours Academic courses relevant to the project : Heat Transfer, Refrigeration and air-conditioning	2018-19-sem2
InMobi- Business Analyst , Bangalore		2019-20-sem2

Company	Experience	Year
InMobi- Business Analyst , Bangalore	In Wadogo, my work primarily focuses on handling supply side partnership with various direct publishers, indirect publishers, agencies etc. It involves handling a diverse set of supply partners across the globe, and providing them with appropriate campaigns, ensuring the maximum revenue burn with quality traffic and profit margin. For providing quality traffic at the required scale, I optimize the publisher traffic, using daily reports through different analytical tools. Tool used (Development tools - H/w, S/w) : M.S. Excel, JIRA, Internal Tools, Appsflyer Objectives of the project : Hunting for new supply partners, and maximizing the revenue and margins for existing supply partners for Inmobi's third party affiliate marketing channel(wadogo) Major Learning Outcomes : Inmobi has given me an amazing opportunity to learn and grow, dealing with clients across the globe. Working with different teams has helped me evolve as a team player and inculcated people management skills in me. Details of Papers/patents : Brief Description of working environment, expectations from the company : Amazing environment, great colleagues and seniors. Everyone is very eager to help. An extremely collaborative learning experience. Academic courses relevant to the project : Majorly requires M.S. Excel	2019-20-sem2
InMobi- Business Analyst , Bangalore	Created, Optimized and maintained trackers that captured the entire APAC business. Optimized work output of team and reduced work input by ~50 man-hours/day. Tool used (Development tools - H/w, S/w) : Excel, Google Sheets Objectives of the project : Daily reporting and making and maintaining trackers Major Learning Outcomes : Improved soft skills, Talked directly to clients, Made trackers, Learned Excel Details of Papers/patents : - Brief Description of working environment, expectations from the company : - Academic courses relevant to the project : POE; Maths 1,2, & 3	2019-20-sem2

Company	Experience	Year
InMobi- Business Analyst , Bangalore	Part of the Business Insights Team wherein I worked to generate insights for the programmatic Ad delivery team. I created and maintained multiple trackers, dashboards and cadence reports. Got Hands-on experience of applying Analytics in optimisation. Also, my day to day job was crude analytics which was completely different from that written in PSD's description. Tool used (Development tools - H/w, S/w) : Advanced MS Excel, Python(for data analytics), SQL, Dashboarding tools Objectives of the project : Generate insights and analyse data to support multiple teams. Major Learning Outcomes : Hands on analytics experience, Upskilled in all the BI Tools, Dynamics of AdTech industry and working in an Agile environment Details of Papers/patents : Brief Description of working environment, expectations from the company : Probably the best work environment and flat cultured organisation. Young and cooperative teammates. You are given ownership of tasks and your opinions are heard out on the table. Academic courses relevant to the project : Probability & Stats, Optimisation	2019-20-sem2
InMobi- Business Analyst , Bangalore	1.Performance campaign management and optimization 2.Revenue tracking 3.Programmatic Advertising 4.Fraud Management 5.Attribution Tool used (Development tools - H/w, S/w) : Excel Objectives of the project : Fraud Management Major Learning Outcomes : Learnt Fraud Management Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : No	2019-20-sem2

Company	Experience	Year
InMobi- Business Analyst , Bangalore	My role in the company was that of an Analyst. My work included preparation of daily reports to be sent out to publishers and assist Partner Managers in analyzing trends of various clients at regular intervals. My work also included the migration of supply inventory. Tool used (Development tools - H/w, S/w) : In-house softwares, Excel, Python, SQL Objectives of the project : Upscaling of Revenue and Optimization of various Accounts Major Learning Outcomes : Gained dexterity in Excel, SQL and other in-house software. Developed a holistic understanding of the Ad-tech Industry. Learnt how to analyse reports such that they are better suited to the company's requirements. Details of Papers/patents : Brief Description of working environment, expectations from the company : Amazing working environment with friendly teams. People here are really good and helpful. A very collaborative approach is followed in the team to get optimal results. Seniors are quite eager to help and mentor the newbies. One great thing is that you are given ownership for the work you handle and you are free to experiment things. Academic courses relevant to the project : Probability and Statistics	2019-20-sem2
InMobi- Business Development , Bangalore		2018-19-sem2
InMobi- Business Development , Bangalore	Worked with the market research platform of Inmobi. Direct clients were given to handle Tool used (Development tools - H/w, S/w) : Excel, PowerBi Objectives of the project : Market Research Major Learning Outcomes : Learned about the working of research industry and sales industry Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Market Research	2018-19-sem2

Company	Experience	Year
InMobi- Business Development , Bangalore	Was a part of demand team in Affiliate Business of InMobi which required me to handle a lot of money, interact with clients & scale up business. Tool used (Development tools - H/w, S/w) : MS-Excel Objectives of the project : To Scale up Business by taking Strategic Decisions Major Learning Outcomes : Learned about professional ethics, MS-Excel & developed communication skills Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Work environment is great ! Everyone is very good & approachable. Office is very delightful & it is a very good option for anyone who wants to build their career in Advertising industry Academic courses relevant to the project : NA	2018-19-sem2
InMobi- Business Development , Bangalore	Handled various supply side affiliate accounts for Wadogo, third party supply channel of InMobi from around the globe and worked towards increasing revenue. Tool used (Development tools - H/w, S/w) : MS Excel Objectives of the project : To understand various fraud defence techniques and increment of daily revenues. Major Learning Outcomes : Client Handling and negotiation skills. Improvement in MS Excel skills. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Principles of Economics	2018-19-sem2
InMobi- Business Development , Bangalore	Carrying out data analysis for optimization of revenue and margin on affiliate market. Along with this liaise with engg and business team in poduct development. Tool used (Development tools - H/w, S/w) : R, Python , SQL Objectives of the project : Optimizing revenue on affiliate market. Major Learning Outcomes : Data Analysis , business development Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : none	2018-19-sem2

Company	Experience	Year
InMobi- Business Development , Bangalore	Coordination with Business and Operations side to align better goal and tactics. Worked on data crunching project to increase user acquisition sales and increase campaign deliver rate. Worked on central market intelligence for understanding advertising and marketing ecosystem. Tool used (Development tools - H/w, S/w) : Excel, R studio, Python, Google Data Studio Objectives of the project : To give insights after a complex data crunch of user acquisition. Market intelligence project was to study competitive analysis of company's competitors. Major Learning Outcomes : Able to completely track user journey for a particular campaign and hence able to attract many clients. Details of Papers/patents : Confidential data cannot be presented. Brief Description of working environment, expectations from the company : Nice work life balance along with awesome facilities. Working with talented professionals from IIM and IIT is an added advantage. No PPO offered because of hiring freeze Academic courses relevant to the project : Principle of Management, Technical Report Writing.	2018-19-sem2
InMobi- Business Development , Bangalore	My role in the company was that of an Analyst. My work included preparation of daily reports to be sent out to publishers and assist Partner Managers in analyzing trends of various clients at regular intervals. My work also included the migration of supply inventory. Tool used (Development tools - H/w, S/w) : MS-Excel, Python, Tableau, Various In-House Tools Objectives of the project : Upscaling of Revenue and Optimization of various Accounts Major Learning Outcomes : 1. Learned about the functioning of Ad network as an industry 2. Insight into how a product is conceived and brought into reality 3. Understood the company ethics, presence of and adherence to hierarchy 4. Formal mailing etiquettes, data handling & data analysis in MS-Excel and coding in Python Details of Papers/patents : NA Brief Description of working environment, expectations from the company : InMobi has an amazing work culture and people are very approachable. Academic courses relevant to the project : Probability and Statistics	2018-19-sem2

Company	Experience	Year
InMobi- Business Development , Bangalore	I was working in the Affiliate Partnerships team of Performance Campaigns - Wadogo. I handled two verticals of Wadogo viz. Strategy & Operations as well as Direct Demand. The former one refers to the analysis of overall perfromance data to make business and strategic recommendation in a fast paced and dynamic environment. This was done through computation of data and monitoring performance of wadogo through various trackers and decks. The latter one was about management of onnetwork campaigns running on Wadogo from Middle East, Australia, Japan & Korea Regions. Since, I was part of Direct Demand side, my work involved taking campaigns live, daily optimization of campaigns, margin management, operations for fraud check-ups and performing corrective actions for the campaigns. Tool used (Development tools - H/w, S/w) : Excel & Powerpoint, SQL, DB Visualizer, Google Sheets & Slides Objectives of the project : Monitoring & Strategising overall performance of inmobi affiliate platform (wadogo) as well as management of campaigns for multiple regions (meta, au, jp& kr) Major Learning Outcomes : Sound understanding of Affiliate Marketing. Gained knowledge about various optimizations in performance campaigns and fraud detection techniques. Sharpened communication and client management and decision making skills. Improved skills on Excel, DB Visualizer and other tools. Got undertanding of digital advertising market in general. Details of Papers/patents : Brief Description of working environment, expectations from the company : Amazing working environment with friendly teams. People here are really good and helpful. A very collaborative approach is followed in the team to get optimal results. Seniors are quite eager to help and mentor the newbies. One great thing is that you are given ownerships for the work you handle and you are free to experiment things. No strict work timings and you also have food and beverages for free. There's a play area too where you can have a match of TT, foosball or FIFA with PS4. Overall, inmobi gives you a chilled environment which one can utilise and produce some tangible results and develop. Academic courses relevant to the project : Quantitative Methods, MIS, Business Policy & Strategy Making, Marketing	2018-19-sem2

Company	Experience	Year
InMobi- Business Development , Bangalore	Data driven analysis to explore untapped avenues for mobile advertising. Tool used (Development tools - H/w, S/w) : R, SQL and Python Objectives of the project : Research for Advertising Business Major Learning Outcomes : New coding languages, advanced excel and market research. Details of Papers/patents : In progress Brief Description of working environment, expectations from the company : Great company to work for with one of the best culture across the globe. Academic courses relevant to the project : None	2018-19-sem2
InMobi- Business Development , Bangalore	InMobi is one of the biggest Ad-Network. I was working in Wadogo team, which is a third party supply channel. I worked on performance based advertising, which is the other name of Affiliate Marketing. Here my role as an Account Manager calls for continuous communication and collaboration with our demand partners i.e Advertisers, who have campaigns from various verticals and geos and pass these campaigns to our affiliate partners to publish ads. My role is to take these campaigns live and perform daily optimisations in order to meet desired ROI. Tool used (Development tools - H/w, S/w) : IAP - InMobi Click hosting platform, Salesforce, Clarity - InMobi's reporting tool, MS-Excel. Objectives of the project : Understanding mobile advertising and affiliate marketing business strategies. Major Learning Outcomes : Learnt about DSP, affiliate marketing, mobile advertising, RTB. Details of Papers/patents : Nil Brief Description of working environment, expectations from the company : InMobi has a great learning environment, with mostly bitsians all around. People are cool and fun loving. Academic courses relevant to the project : I took a SOP based on Advertising. It was based on studying how communication is affective in advertising. So I think that inclined me more towards understanding how advertising monetization happens.	2018-19-sem2
InsideView Technologies, Hyderabad	My work at InsideView was about back-end application development. This involved building RESTful web services using the Spring Framework in java. It was a very good learning experience; I have learnt a lot of technical stuff and done the same work as would a SDE1. I highly recommend this company for PS2 to everyone who wants to have a good technical learning experience. The people here are friendly and helpful; interns are treated the same way as full time employees in terms of the work given.	2015-16-sem2

Company	Experience	Year
InsideView Technologies, Hyderabad	In this extract I will be talking about my experience at my PS station, Insideview Hyderabad. Here I will talk about all the various positives and negatives from my experience at Insideview and my advice for any future students at Insideview. Let me start of by talking about the plus side of my Internship and share some positive experiences from my time at Insideview. My project at Insideview was to rewrite and remodel the insideview indexing code and explore the possibility to deploy this code on spark. In this project I got to learn a lot of new technologies. Spark, Storm, Elasticsearch, Lucene, Hibernate, Maven were just a few of these aforementioned technologies. I relished the chance to learn all these new things as you are not afforded this opportunity in most PS stations and it will be very useful to me in the future. The work culture and environment is also very friendly and open. There is daily communication between all the members of a team. All of my team members were very welcoming and it was very easy to integrate seamlessly into the team. The work hours are also flexible and they allowed us to work from home if we needed to. We also had two team outings to Leonia and Wonderla which were also very enjoyable. I was not looking for a PPO during my time there, but I was told that if you do a good job for your team then there is a good chance that you'll be given a PPO. Now let us move on to some of the negatives during my time at Insideview. Firstly the project description given by the company for the projects here is not entirely accurate. In the description it was mentioned that the projects would be related to the fields of Data Mining and Information retrieval, but this was not the case. Only one out of the three projects was related to Information Retrieval. Therefore if a student is looking for a project related to Data Mining I would not suggest that they go for Insideview, as there is no guarantee that a Data mining project will be assigned to the student. Another minor complaint that I had was that my mentor was very busy so there were times when I had to wait for long periods of time for him to check and approve my work. To conclude I would say that my overall experience at Insideview was a positive one.	2015-16-sem2

Company	Experience	Year
Intel India Technology , Bangalore	Comments: Expectations from industry : Intel India works in various areas like Motherboard chipsets, Network interface controllers and integrated circuits, Flash memory, Embedded processors, Software development, Biomedical Signal processing, Verification and Validation, Testing and Digital Image Processing and many more. The students are working in various projects like Discrete Graphics Integration and Validation,Performance validation of GPUs,Full chip timing analysis, RLS autowrapper scripts to generate recipes for faster partition execution,Automation of Design For Testability structures using floorplan database,Dynamic Verification of power aware RTL design,Performance Formal Verification,Transformer Model Implementation,Different Floorplanning Methodologies,Test platforms integration,RTL Quality improvements based on static checks, Constraints cleanup with GCA,Full Chip Integration/ Clock Tree Synthesis,Power Estimation and optimization,DFT RTL Design and Integration, AI media processor SoC, Connectivity in SoC, Validation of P4 Tools using Test Framework, VM Orchestration Framework, Terragraph, Design and verification of CDC FIFO MUX, Structural design and implementation of physical block, ATS SoC, FIVR SD, Test Platforms Integration, Design For Graphics Debug. According to mentors feedback and observations, students need to be trained in scripting languages Perl,Tcl, etc, AMBA protocol, VLSI architecture and mobile Communications. Intel has recently started new technologies and innovations in machine learning and embedded system. Student need to be prepared with new challenges and have interest in research as well.	2018-19-sem2
Intel India Technology , Bangalore	I worked on backend (Physical Design) flows. I understood how it is done at the full chip and partition level. I learned scripting in TCL and wrote some scripts to automate tasks in Clock tree synthesis (CTS) stage of the flow. Tool used (Development tools - H/w, S/w) : TCL, Synopsys Objectives of the project : Physical Design Major Learning Outcomes : Scripting and automation, CAD for IC Design Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : CAD for IC Design	2018-19-sem2

Company	Experience	Year
Intel India Technology , Bangalore	Network testing , throughput testing and automation of testing scripts. Tool used (Development tools - H/w, S/w) : IXIA, Iperf, Python, Server linux Objectives of the project : To ehance the speed of connectivity (throughput/bandwidth test) using WiGig technology Major Learning Outcomes : Learning on the testing procedure in network, debug and automation of tests real time. Details of Papers/patents : Terragraph Brief Description of working environment, expectations from the company : Work time flexibility and ease to new technologies and variety of technology phases in meetings. Academic courses relevant to the project : Computer Network, Software testing methodologies, Object oriented programming, Object oriented analysis and design.	2018-19-sem2
Intel India Technology , Bangalore	Worked on synthesis and apr flows for a project. Also worked on power optimization via various clock gating techniques Tool used (Development tools - H/w, S/w) : DC, ICC2 Objectives of the project : Optimize power for a chip using various clock gating techniques Major Learning Outcomes : Physical design flow, Clock gating techniques Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Academic courses relevant to the project : CAD for IC design, VLSI design	2018-19-sem2
Intel India Technology , Bangalore	Tool used (Development tools - H/w, S/w) : synopsys tool Objectives of the project : Quality checks for RTL before delivering it to backend team for smooth tapeout with minimum delay of time Major Learning Outcomes : learnt what are all quality checks and their importance where they do come in picture of asic flow, also learnt how to enable quality checks for RTL Details of Papers/patents : Brief Description of working environment, expectations from the company : at INTEL it is great to work and grow Academic courses relevant to the project : VLSI design, VTT	2018-19-sem2

Company	Experience	Year
Intel India Technology , Bangalore	I worked in physical design domain, where my job was to meet setup and hold timing for a given partition (block) and also to reduce the congestion and shorts in the same. In short I had to do Synthesis, Placement and Routing for a given block. Various techniques like register retiming, combinational logic optimization, etc. were put to use to meet the timing requirements. For reducing the congestion, reducing the pin and cell densities, replanning the logic placement, etc. were put to use. Tool used (Development tools - H/w, S/w) : Synopsys DC, Synopsys ICC2, Perl, TCL. Objectives of the project : To meet the timing and reduce congestion for the given block. Major Learning Outcomes : Practical possibilities of meeting the setup and hold times, and how routing can be improved in a complex logic block. Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment is good. Work life balance is well maintained. Academic courses relevant to the project : VLSI Design	2018-19-sem2
Intel India Technology , Bangalore	Tool used (Development tools - H/w, S/w) : P4 Language, Python, C++ Objectives of the project : Development and validation of P4 compiler tools for functional correctness, stability, and reliability of generated code, and improvement of Test Framework for P4 tools validation. Major Learning Outcomes : Developing and debugging framework written in Python. and developing compiler backend. Details of Papers/patents : Brief Description of working environment, expectations from the company : One of the most ethical companies with excellent working atmosphere and decent work-life balance. Academic courses relevant to the project : Advanced Compiler Design, Object Oriented Analysis and Design, Cloud Computing.	2018-19-sem2

Company	Experience	Year
Intel India Technology , Bangalore	I have learnt about the steps involved in physical design flow and there implementation using Synopsis tools like IC Compiler II, DC Compiler,etc. It is process of transforming netlist into layout which is manufacture-able GDS. Main steps which I learnt in physical design are placement of all logical cells, clock tree synthesis & routing. During this process of physical design timing, power, design & technology constraints have to be met. Further design might require being optimized w.r.t area, power and performance. Tool used (Development tools - H/w, S/w) : IC Compiler II , Prime Time , DC Compiler, Redhawk Objectives of the project : Objective of the project is to transform netlist into layout which is manufacturable GDS. Major Learning Outcomes : TCL scripting, Physical Design Flow Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : CAD for IC Design , Digitsl VLSI Design	2018-19-sem2
Intel India Technology , Bangalore	Worked as graphics software intern . Got automation task using python/sikuli. Integrated one ML API with automation test case suite. Tool used (Development tools - H/w, S/w) : Python, SikuliX, various windows related APIs Objectives of the project : Automate graphics based test cases that were being run manually. Major Learning Outcomes : Gained good knowledge of python, E2E application workflow Details of Papers/patents : None Brief Description of working environment, expectations from the company : Good work culture with flexible timings. Very supportive managers and colleagues. One expectation is it'd be good if manager sometimes initiates one to one sessions regarding project expectations. Academic courses relevant to the project : None	2018-19-sem2
Intel India Technology , Bangalore	Basically,worked on back-end physical design.The work included all of the steps included in physical design process like floorplanning, placement & routing to name a few. Tool used (Development tools - H/w, S/w) : ICC II by synopsys, PrimeTime by synopsys Objectives of the project : The main objective of the project was to deeply understand each and every step of the detailed physical design flow. Major Learning Outcomes : Learned a lot about the detailed RTL to GDS-II flow,tools like ICC II etc. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Vlsi design,advanced vlsi design,CAD for IC design	2018-19-sem2

Company	Experience	Year
Intel India Technology , Bangalore	I worked on debugging and resolving issues encountered in the Graphics Drivers written for Intel's Graphics platforms by using various open source as well as proprietary tools provided by Intel. Tool used (Development tools - H/w, S/w) : Windows software trace Preprocessor(WPP), Logman tool, Windows Performance Analyzer, WinDbg Tool, Git Objectives of the project : Debugging of Intel's Graphics Drivers Major Learning Outcomes : Batch Scripting, Python Scripting, Windows PowerShell Scripting Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment was very positive and encouraging and everyone around was very helpful. The environment was conducive to learning and I as an intern got to interact with the manager freely. The internship helped me expand my horizons in terms of technical as well as soft skills. Academic courses relevant to the project : Device Drivers, Real Time Systems, Embedded System Design, Software for Embedded Systems	2018-19-sem2
Intel India Technology , Bangalore	In PS-II , i am in VLSI domain , so my work profile is as an SOC design Engg. In VLSI , mainly two broad category are there, first is pre silicon work and another one is post silicon work. I am working as a GLS Engg that is pre silicon work. GLS(Gate Level Simulation) is netlist verification after placement and routing of synthesized verilog code (Device Verilog code). Tool used (Development tools - H/w, S/w) : Simulation Tool (Mentor Graphics- ModelSim, Synopsis - Verdi) Objectives of the project : Netlist Verification Major Learning Outcomes : Complete Pre Silicon work flow and GLS Details of Papers/patents : Brief Description of working environment, expectations from the company : Working Environment of Intel is Good, here we can learn a lot of thing. They provide all the access to Intern , like tool and VNC access so we can perform practical . After 2-3 months , they may include in live project also, there we get more exposure of current work going on. Academic courses relevant to the project : verification Test & test ability (System Verilog), VLSI ARCH , VLSI Design	2018-19-sem2

Company	Experience	Year
Intel India Technology , Bangalore	Rtl design, rtl design tool development Tool used (Development tools - H/w, S/w) : CoreBuilder, Unix environment Objectives of the project : Tool development, RTL integration Major Learning Outcomes : Perl tcl Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Vlsi arch, reconfigurable computing, vtt	2018-19-sem2
Intel India Technology , Bangalore	Worked on CTS stage in the Automatic Placement and Routing flow on the full chip and partition level Tool used (Development tools - H/w, S/w) : Synopsys ICC2, TCL Objectives of the project : Full chip/Partition clock distribution Major Learning Outcomes : TCL scripting, Flows and Methodologies in the backend of chip manufacturing. Details of Papers/patents : Brief Description of working environment, expectations from the company : Great worklife balance. Academic courses relevant to the project : CAD for IC design.	2018-19-sem2
Intel India Technology , Bangalore	Worked on physical design flow and power optimization. Tool used (Development tools - H/w, S/w) : DC, ICC2 Objectives of the project : Understand the synthesis and apr flow. Work on power optimization through clock gating Major Learning Outcomes : Physical design flow. Power optimization. Clock gating Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : CAD for IC design VLSI Design	2018-19-sem2
Intel India Technology , Bangalore	I had worked in backend physical design particularly as STA engineer . My major work revolved around looking into timing of entire SOC , doing FCT triaging , checking for violations at partition , subsystem level etc. Tool used (Development tools - H/w, S/w) : Primetime tool Objectives of the project : To generate a refined IO constraint file in order to enhance the timing analysis Major Learning Outcomes : Learnt primetime , STA Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : CAD	2018-19-sem2

Company	Experience	Year
Intel India Technology , Bangalore	In the starting of the internship, a study project was given initially to understand the process of design and pre-Si validation of a block. The study project helped to understand all the design and validation steps which are followed in the industry along with the learning of System Verilog language and UVM methodology. After the study project, a task on a live project based on an OVS (open virtual switch) was assigned. The post mid-semester work starts with the understanding of the OVS and its constituent blocks along with the networking concepts. The task was to optimize the existing end to end scoreboard of the current project to make it reusable and easy to understand. All the details of the current scoreboard and the optimization plan have been attached in the report. Tool used (Development tools - H/w, S/w) : gvim editor, VCS synopsys Objectives of the project : To understand the necessary industry steps followed in design and Pre-Si validation of any project. Major Learning Outcomes : SystemVerilog, UVM methodology, debugging Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : VLSI test and testability	2018-19-sem2
Intel India Technology , Bangalore	Worked in the domain of Network-wireless connectivity, testing of the packet processing, throughput testing, automation of the test cases, debugging routing of packets and understanding the dpdk concepts and related application development. Tool used (Development tools - H/w, S/w) : IXIA, Iperf, python, dpdk, mobaXterm, jenkins, git. Objectives of the project : To enhance the Internet connectivity in the sub-urban area by using millimeter and WiGig technology.Increasing the bandwidth and throughput. Major Learning Outcomes : Learn about how to automate the framework, test on the real time processing of the packets, debugging the bug issues in the routing path, additional features like GRE and development flow of dpdk applications. Details of Papers/patents : Terragraph whitepaper Brief Description of working environment, expectations from the company : Quite flexible learning environment, various different tools docs available for base understanding, regular sync up and discussions to get ahead in flow of the project modules with merged work upon the codebase. Academic courses relevant to the project : Computer Networks, Operating System, OOPs, Object analysis and design, Software engineering, software architecture, software testing methodologies.	2018-19-sem2

Company	Experience	Year
Intel India Technology , Bangalore	I have worked in Power Management team for the major part of this semester. I was involved in running dynamic tests, analyze the results, getting the waveforms and debugging the hardware issues. It was the type of work you would normally expect in a hardware company. There is lot of scope for automation and improving the present condition of running tests and verifying the design. Tool used (Development tools - H/w, S/w) : VCS, VC LP, Verdi, Tcl Objectives of the project : To verify the RTL design using dynamic simulations Major Learning Outcomes : The learning outcomes include: 1. How to work with different test environments and changing the approach to adapt to something new 2. Analyzing the design in a logical manner to quickly spot the issue and suggest changes to get a workaround or fix it. Details of Papers/patents : Brief Description of working environment, expectations from the company : Work place in Intel is extremely good. It depends on the student whether or not they want to take the pressure, one can always demand for more work. All the employees are equally approachable. There is no difference between intern and regular employee, everyone is equally encouraged to pursue a task and support is provided to complete it successfully. Academic courses relevant to the project : Computer architecture, Digital design	2018-19-sem2
Intel India Technology , Bangalore	My work is related to timing convergence and development of the STA Environment Tool used (Development tools - H/w, S/w) : Primetime Objectives of the project : Convergence of timing Major Learning Outcomes : STA anlysis , scriptimg language Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment of the project is good Academic courses relevant to the project : Physical design	2018-19-sem2
Intel India Technology , Bangalore	Worked on developing and setting up a cloud stack. Involved creation of vms, containers and container management softwares. Tool used (Development tools - H/w, S/w) : Ovirt, Foreman, Docker, Kubernetes etc. Objectives of the project : Creation of a cloud stack that has high availability and fault tollerance. Major Learning Outcomes : Ansible, python, docker, kubernetes, foreman, ovirt etc. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Cloud computing, computer network, operating system.	2018-19-sem2

Company	Experience	Year
Intel India Technology , Bangalore	Mostly the work was concentrated around Physical Design. Right from the netlist design planning to the sign off, the entire flow was carried for some of the partitions. Also, some reliability verification tests were done for some of the partitions. And, some scripts were also written for automation of some of the repeated manual tasks. Tool used (Development tools - H/w, S/w) : Hardware: ICC2, Redhawk | Software: Perl, Tcl, Python. Objectives of the project : Learn the Physical Design Flow. Major Learning Outcomes : In understanding how the back end aspect of the SoC design works and the steps involved. Details of Papers/patents : None. Brief Description of working environment, expectations from the company : The working environment was healthy, the team mates were very helpful and pretty much helped along the college to corporate transition phase. Academic courses relevant to the project : CAD for IC Design, VLSI Test and Testability, VLSI Design, Advanced VLSI Design	2018-19-sem2
Intel India Technology , Bangalore		2019-20-sem2
Intel India Technology , Bangalore	Developed a loadable kernel module consisting of a generic PCIe driver for testing device's capabilities like Function Level Reset, Message Signaled Interrupts, and I/O Virtualization and created user and test applications for communicating with the driver through IOC and sysfs. Tool used (Development tools - H/w, S/w) : SW: C, Perl, Make, GDB HW: FPGA, ASIC Objectives of the project : To create a loadable kernel module consisting of a generic PCIe driver Major Learning Outcomes : Kernel Module Development Details of Papers/patents : Brief Description of working environment, expectations from the company : • Collaborated with team validating subsystem responsible for Virtual Switch Scaling in network applications. • Developed a loadable kernel module consisting of a generic PCIe driver for testing device's capabilities like Function Level Reset, Message Signaled Interrupts, and I/O Virtualization. • Designed Direct Memory Access APIs for runtime memory allocation for mapping to the subsystem • Interfaced user and test apps with the above kernel module through IOCTL and sysfs Academic courses relevant to the project : Operating Systems, Computer Architecture, Data Structures and Algorithms	2019-20-sem2

Company	Experience	Year
Intel India Technology , Bangalore	RTL integration of PCI-Express Subsystem in IoT Accelerator. Tool used (Development tools - H/w, S/w) : Synposys coreTools, Lint and CDC GUI Objectives of the project : Effectively integrate PCI-express subsystem in the SoC Major Learning Outcomes : The whole flow and working of RTL integration of a component in SoC Details of Papers/patents : Brief Description of working environment, expectations from the company : The work ranges from hardware to software related. The working environment is encouraging for someone interested in core electronics. Academic courses relevant to the project : Digital Design	2019-20-sem2
Intel India Technology , Bangalore	RTL integration of Intellectual Properties into System on Chip. Additional work on Quantitative memory Selection Methods. Tool used (Development tools - H/w, S/w) : Verilog, Verdi, Intel propreitary tools Objectives of the project : Integration and follow up with functional verification changes. Major Learning Outcomes : Modern Systems and prevalant protocols. Details of Papers/patents : Conference paper on "Quantitative approach to SRAM Selection Methods" in Intel's private conference Brief Description of working environment, expectations from the company : Approachable and open employees, counter-intuitively hardworking environment. Academic courses relevant to the project : Communication Networks, Some part of Microprocessors course. (you will only work with communication ports, not processing architectures.)	2019-20-sem2

Company	Experience	Year
Intel India Technology , Bangalore	Spent the first few months working on a project which was aimed at increasing the debug capabilities of FPGA prototyping by capturing data and storing it at user defined points. Work included writing modules in system Verilog for the capture and propagation of the trigger and movement of data on a multi-FPGA platform using AVST interfaces. The next 3 months, I worked on the board bring-up of a project, which included file list generation, elaboration and verification of the project and removal of gated clocks and other non-FPGA friendly components. Tool used (Development tools - H/w, S/w) : Synplify premier, Quartus, Dve Objectives of the project : Improving the debug capabilities of FPGA protyping Major Learning Outcomes : Learnt about the processes involved with board bring-up of a project. Also improved my knowledge of system verilog and learnt things like using inout ports, macros ets. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : FPGA lab course, Digital Design	2019-20-sem2

Company	Experience	Year
Intel India Technology , Bangalore	As a part of my PS-2 project I was involved in testing of the automation software used in the Intel Factories across the world manufacturing chips. I had also developed new features for an automation system. While developing new features, I have majorly worked with developing better User Interface incorporating the new requirement by the customer. At the interface level I also had to design effective algorithms to deal and modify the data that was being given as the input. This later had to be passed on to the Database. Communication channel, had to be established between the User Interface and the Database, was also developed as a part of the project. I had to design the functions for transferring the data that the user inputs in the User Interface to the Database. Tool used (Development tools - H/w, S/w) : C#, .NET, Prism Objectives of the project : Develop new features in the applications used by the customers, as per the business requirements Major Learning Outcomes : C#, Software Development Life Cycle, Software Testing, Prism, .NET Framework, Design Patterns for developing User Interfaces(MVVM) Details of Papers/patents : Brief Description of working environment, expectations from the company :There are a lot of learning opportunities at Intel. The team was very helpful in achieving the business goals. Academic courses relevant to the project : C Programming, Data Structures and Algorithms, Object-Oriented Programming	2019-20-sem2
Intel India Technology , Bangalore	Worked on pre si validation of radio ip part of data communication chips produced by Intel. Tool used (Development tools - H/w, S/w) : System verilog, vcs, Perl , vhdl , synopsis tool Objectives of the project : Learn CPRI interface part of 5G networks and work on soc validation of it Major Learning Outcomes : Learnt CPri interface part of 5G networks and worked on soc level validation and design Details of Papers/patents : - Brief Description of working environment, expectations from the company : The working environment was up to my expectations and the people around were helpful and I have learnt a lot from them Academic courses relevant to the project : Digital design, computer architecture , analog digital vlsi design	2019-20-sem2

Company	Experience	Year
Intel India Technology , Bangalore	The spec file is written using tcl and clock tree design. This spec file is dumped into clock building tool. The tool automatically does the placement and routing. After this, manual routings is performed for the input and outputs, because tool performs routing only between the two cells. And reach the targeted skew. Here the skew is reduced to 94% of the initial value Tool used (Development tools - H/w, S/w) : ICC2, Clockbuilder Objectives of the project : The objective of this project is to apply different design constraints at synthesis and physical design stages to meet the required design requirements. The constraints given in this project are: ▪ Macro placement, hard blockages at floor plan stage. Major Learning Outcomes : The project mainly involved the proper design of the clock distribution network ensuring that critical timing requirements are satisfied with minimum skew and latency. Details of Papers/patents : None Brief Description of working environment, expectations from the company : The working environment in Intel is excellent. It has a great work life balance. The learning experience is also good. The team is very supportive and helps a lot. Academic courses relevant to the project : VLSI Design, Advanced Vlsi Design	2019-20-sem2

Company	Experience	Year
Intel India Technology , Hyderabad	Comments: Expectations from industry : Intel India works in various areas like Motherboard chipsets, Network interface controllers and integrated circuits, Flash memory, Embedded processors, Software development, Biomedical Signal processing, Verification and Validation, Testing and Digital Image Processing and many more. The students are working in various projects like Discrete Graphics Integration and Validation,Performance validation of GPUs,Full chip timing analysis, RLS autowrapper scripts to generate recipes for faster partition execution,Automation of Design For Testability structures using floorplan database,Dynamic Verification of power aware RTL design,Performance Formal Verification,Transformer Model Implementation,Different Floorplanning Methodologies,Test platforms integration,RTL Quality improvements based on static checks, Constraints cleanup with GCA,Full Chip Integration/ Clock Tree Synthesis,Power Estimation and optimization,DFT RTL Design and Integration, AI media processor SoC, Connectivity in SoC, Validation of P4 Tools using Test Framework, VM Orchestration Framework, Terragraph, Design and verification of CDC FIFO MUX, Structural design and implementation of physical block, ATS SoC, FIVR SD, Test Platforms Integration, Design For Graphics Debug. According to mentors feedback and observations, students need to be trained in scripting languages Perl,Tcl, etc, AMBA protocol, VLSI architecture and mobile Communications. Intel has recently started new technologies and innovations in machine learning and embedded system. Student need to be prepared with new challenges and have interest in research as well.	2018-19-sem2

Company	Experience	Year
Intel India Technology , Hyderabad	The FEBE Fishtail team is responsible for RTL constraint and Timing Exception Analysis. Setup, SDC, Clock Definition, Clock Propagation, Generated Clock, Clock Crossing and Case Analysis issues are generated using Fishtail software and are analyzed. First Setup and SDC issues are cleaned and then other issues as mentioned are cleaned. The issues analyzed are reported to respective partition owners who are responsible for resolving the issues. Tool used (Development tools - H/w, S/w) : Fishtail Objectives of the project : To do formal verification and to analyze the constraints and timing exceptions of the clock Major Learning Outcomes : work in actual project of the company exposes to the actual errors faced and helps in debugging issues Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Embedded Systems,FPGA, Computer Architecture,ADVD	2018-19-sem2
Intel India Technology , Hyderabad	My work was based on validation of the security engine, using System Verilog and OVM. This required an in-depth understanding of data paths and internal structure of the engine. After gaining a deeper understanding into the functionality of the engine, I wrote test cases for it and analyzed waveforms to debug in case of any errors. Tool used (Development tools - H/w, S/w) : ACE, DVE Objectives of the project : Validation of System Security Module Major Learning Outcomes : The internal working of the system security engine, System Verilog, OVM Details of Papers/patents : Brief Description of working environment, expectations from the company : There is a lot to learn at Intel although it requires motivation and dedication. The people are friendly but don't talk much unless spoken to. Mentors and managers are easily approachable and are always ready to help and explain things. Academic courses relevant to the project : Digital Design, Computer Architecture, FPGA, Embedded System Design	2018-19-sem2

Company	Experience	Year
Intel India Technology , Hyderabad	The whole VLSI Physical Design flow is executed on SoC partitions. It started with synthesis , then Floor plan , Placement and Routing. Design Compiler by Synopsys is used for synthesis, ICC - II by Synopsys for rest of the flow. Tool used (Development tools - H/w, S/w) : Design Compiler by Synopsys, IC Compiler - II by Synopsys, Prime Time by Synopsys. Objectives of the project : To generate clean GDS -II from RTL for an SoC partition. Major Learning Outcomes : Using different industry standard tools, Different aspects of VLSI Physical Design. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : CAD for IC, VLSI Design	2018-19-sem2
Intel India Technology , Hyderabad	The role i am involved in deals with power analysis and the implementation of the low power techniques to make the chip power efficient. The tool used takes various collateral files as inputs and generates the power summary reports for the respective partitions of the chip/SOC. Further analysis involved in the project deals with electromigration and IR drop checks in the power delivery network. Tool used (Development tools - H/w, S/w) : Prime Time PX tool Objectives of the project : To analyze the power consumption involved at the chip level and implementation of low power techniques to achieve the required target. Extraction of the final data using TCL/Perl Scripts Major Learning Outcomes : Acquaintance with the backend design power methodology flow. Useful hands on experience on the industrial level tool for power analysis. Understanding how the work of various other teams are connected and related my team. Details of Papers/patents : .... Brief Description of working environment, expectations from the company : The working environment at Intel Hyderabad was totally apt for working collaboratively to achieve the goals. People from the team i was associated with as well as other teams had the spirit of working together in a team and helping each other when needed. Lots of new and unknown things were learnt as a result of mutual interaction between the various people working for the company. Academic courses relevant to the project : CAD for IC Design, VLSI Design, Solid State Devices and Circuits.	2018-19-sem2

Company	Experience	Year
Intel India Technology , Hyderabad	We analyzed RTL constraint and Timing Exception Analysis. Setup, SDC, Clock Definition, Clock Propagation, Generated Clock, Clock Crossing and Case Analysis issues are generated using Fishtail software and are analyzed. First Setup and SDC issues are cleaned and then other issues as mentioned are cleaned. The issues analyzed are reported to respective partition owners who are responsible for resolving the issues. Tool used (Development tools - H/w, S/w) : fishtail Objectives of the project : The different kind of setup , SDC , timing issues are observed and informed. Major Learning Outcomes : Learned to debug issues in RTL design both setup and timing related, learnt to use perl, fishtail software and verdi, learnt to communicate with partition owners regarding issues and learned many linux based skills. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Embedded systems, FPGA, VLSI,computer architecture	2018-19-sem2
Intel India Technology , Hyderabad	IC has millions and billions of transistors and thus the process of designing it is a complex task. So in order to simplify this process, smaller components or subsystems of the chip are designed first and then integrated together to form the SoC. The aim of the project was to design a subsystem such that it can be properly integrated into the SoC along with its verification (quality checks) and debugging. Tool used (Development tools - H/w, S/w) : Intel tools , Verdi(Synopsys) Objectives of the project : To design and integrate DFx subsystem into the SoC Major Learning Outcomes : Front End SoC Design Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is great. Got a lot of support from the team members whenever i approached them on some issue. Academic courses relevant to the project : Digital Design , Analog and Digital VLSI Design	2018-19-sem2
J P Morgan Services - GKN Markets , Mumbai		2018-19-sem2

Company	Experience	Year
J P Morgan Services - GKN Markets , Mumbai	My major tasks include the reconciliation of indices along with escalating and resolving in case of any mismatch between the primary and secondary index levels, preparing reports for clients that include both daily and a monthly overview of index performance and marketing material for Sales team along with developing strategies. My projects included automation of rebalancing indices, development of news based and equity risk premia strategy. Tool used (Development tools - H/w, S/w) : Bloomberg, Python, Visual Studio, HTML, Microsoft Excel, Microsoft Word, Objectives of the project : Development and maintenance of indices Major Learning Outcomes : A better understanding of financial markets and products (index) along with improved proficiency of Python, Microsoft Excel, and Bloomberg. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Fundamental of Finance and Accounting, Derivatives and Risk Management, Financial Analysis, Security Analysis and Portfolio Management	2018-19-sem2
J P Morgan Services Ltd - Finance , Mumbai		2018-19-sem2
J P Morgan Services Ltd - Finance , Mumbai	Automating Regulatory Reporting processes using an Artificial Intelligence based took known as Xceptor. Tool used (Development tools - H/w, S/w) : Xceptor, Microsoft Outlook, Microsoft Excel Objectives of the project : Automation of Regulatory Reporting processes Major Learning Outcomes : Banking processes, regulations, Automation tools, Corporate ethics Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : FOFA, DRM, FRAM, Basics of Computer Programming	2018-19-sem2
J P Morgan Services Ltd - Finance , Mumbai	Automating Regulatory Reporting processes using an Artificial Intelligence based took known as Xceptor. Tool used (Development tools - H/w, S/w) : Xceptor, Microsoft Outlook, Microsoft Excel Objectives of the project : Major Learning Outcomes : Banking processes, regulations, Automation tools, Corporate ethics Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : FOFA, DRM, FRAM, Basics of Computer Programming	2018-19-sem2

Company	Experience	Year
J P Morgan Services Ltd - GMG & Quant , Mumbai		2018-19-sem2
J P Morgan Services Ltd - GMG & Quant , Mumbai	Primarily my work was to analyse the performance of e-trading strategies used in the firm. So e-trading consists of effectively executing orders(think of it as if you are a broker). A part of my job was also to make alpha strategies to help the business. The learning was very steep since I was totally new to the concepts in e-trading/ alpha making. Tool used (Development tools - H/w, S/w) : Python, Linear algebra, Probability Theory , Econometrics Objectives of the project : To analyse performance of e-trading strategies. Major Learning Outcomes : I have learned a lot about the e-trading business and the various algorithms used in the business Details of Papers/patents : None Brief Description of working environment, expectations from the company : The working environment is great. You are expected to work around 9-11 hours a day. The teams are supportive and helpful. In QR they expect that you know Mathematics very well. Especially Prob Stats, Linear algebra, Calculus. Above average programming knowledge is also necessary (especially python). Machine learning/ good puzzle solving ability can be a plus point . Rest you can learn on the go. Academic courses relevant to the project : Econometrics SAPM ML DRM	2018-19-sem2

Company	Experience	Year
J. P Morgan CIB-RFT, Bangalore	We had to create a dashboard (a means of visualization) for JPMC's data (especially related to their many projects going on) by processing and analysing it. Tools used (Development tools - H/w, S/w): ELK stack, Java (for writing the back-end), Node JS, Angular JS (for implementing the front-end). Objectives of the project: 1) Get data from myriad number of sources (like Jenkins, Bit-bucket etc). 2) Process them and push into ELK stack. 3) Create visualizations and display the data. 4) Make a user-friendly UI, so that it becomes easy to obtain key-insights into the data. Outcomes of the project: We (along with the team) were successful in creating the web-platform upon which these visualizations are being displayed to various JPMC officials. Major Learning Outcomes: We got to learn and experiment with ELK stack is a very popular Logmanagement platform. Writing code complaint with corporate standard guidelines was also a big takeaway for me. Brief Description of working environment, expectations from the company: The company is very good place to work at. One can get to learn a lot, especially if interested in this sort of Web-Development work. Extremely cooperative and knowledgeable managers/mentors. Independence is given to even interns. Although, one slight nitpick would be that not much Data Analytics/ML related work (as was mentioned in the PS-2 website) was present.	2016-17-sem2
J. P Morgan CIB-RFT, Bangalore	Developed a dashboard for a real-time trading platform that will be used by many PMs in JP Morgan Tools used (Development tools - H/w, S/w): Java, C#.NET Objectives of the project: Analyze and develop a dashboard for a real-time trading platform. Outcomes of the project: Created a framework, base and designed modules for the dashboard. Major Learning Outcomes: Learnt how a corporate bank functions, various economic and financial terms and their use in the industry, how to design effective software development models and improve application development skills. Brief Description of working environment, expectations from the company: Work timings are very flexible. Company treats you like an employee and expects you to contribute to the project just like any other good employee would do. People are ready to help and are always eager to explain new concepts and provide assistance.	2016-17-sem2

Company	Experience	Year
J. P Morgan CIB-RFT, Bangalore	I had worked on a dashboard for the senior management and application developers to guage and analyze the infrastructure resources like IaaS, PaaS, Database services etc on their servers consumed by them, so that they can identify any production inefficiencies or free up any resource that may be not using anymore. Tools used (Development tools - H/w, S/w): Qlikview, Splunk enterprise Objectives of the project: Identify Production inefficiencies for applications. Outcomes of the project: Automated Dashboard that can give application developers insight into their infrastructure spending. Major Learning Outcomes: Operations and management of resources in large organisations. Technical knowledge in qlikview, splunk and python Brief Description of working environment, expectations from the company: People here are extremely helpful and enthusiastic. Great environment to learn and grow as a developer.	2016-17-sem2
J. P Morgan CIB-RFT, Bangalore	Used various web-technologies to enhance the framework of the application. Objectives of the project: To build and enhance an existing application Outcomes of the project: Built many new features and updated existing short-comings. Major Learning Outcomes: Learnt about Python, web-technologies and agile mode of development. Brief Description of working environment, expectations from the company: It has been a great experience. The colleagues here are very supportive and helpful. I have learnt a lot from them.	2016-17-sem2
J. P Morgan CIB-RFT, Bangalore	The work involved implementation of various algorithms in machine learning and implementing a sentiment analysis module. Tools used (Development tools - H/w, S/w): Anaconda, Pycharm and Spacy. Objectives of the project: To implement machine learning algorithms to cater the business use case. Outcomes of the project: A model used to predict sentiment of live news. Major Learning Outcomes: We got to learn Python, tensorflow and Java script. Brief Description of working environment, expectations from the company: The working environment is good but there's nothing for recreation. The mentor and manager are actively involved and have an open discussion with you and guide where ever you need help. The company especially the mentor and manager want that you complete your work within the given deadline. Prior knowledge of Python is a plus.	2016-17-sem2

Company	Experience	Year
J. P Morgan CIB-RFT, Bangalore	Our work was to create a proof of concept, for sentiment analysis. We created a deep learning model for predicting whether a sentence is positive, neutral or negative. As a sample application we also build a news analysis web app. We also worked on other Natural language processing applications. Tools used (Development tools - H/w, S/w): python, tensorflow and keras. Objectives of the project: Sentiment analysis of financial data. Outcomes of the project: A model which does 3-class sentiment classification with an accuracy of 70%. Major Learning Outcomes: Deep learning, Web app development. Brief Description of working environment, expectations from the company: Work is time sensitive. It is not heavy but effort is a requirement. Work hours are normal and expectations are a bit on the higher side. We got a really good mentor and manager. Overall, the environment is good and promotes productivity but lacks on recreational activities.	2016-17-sem2

Company	Experience	Year
J. P Morgan CIB-RFT, Bangalore	Full stack development of UI. Tools used (Development tools - H/w, S/w): Scala and Angular. Objectives of the project: Replacing an already existing accounting database with JP Morgan's database Major Learning Outcomes: Learned a new programming language Scala. Learned the working of different LOBs in JP Morgan. Brief Description of working environment, expectations from the company: Amount of work isn't much, flexible working hours, high pay and relaxed life. Shot Summary of work done during PS-II: Created an analytics dashboard based on the ELK stack using in JavaScript, HTML and CSS using AngularJS and Bootstrap. Tools used (Development tools - H/w, S/w): JavaScript, HTML, CSS, AngularJS and JQuery. Objectives of the project: Objective was to integrate IT managerial and software development tasks by creating a dashboard view that provides an overall view of the initiatives being undertaken in the line of business and their current statuses. Outcomes of the project: The dashboard was created leading to a successful DevOps environment being established in the company, where managers can be provided of an overall view of all related tasks of each initiative. Major Learning Outcomes: Javascript, JQuery and AngularJS were the major learning outcomes on the web development aspect of the project. Brief Description of working environment, expectations from the company: There were daily calls for catching up with team members and everyone is expected to produce some ideas or showcase concrete results of the previous day's work.	2016-17-sem2
JDA Software Solutions , Bangalore		2018-19-sem2
JDA Software Solutions , Bangalore	JDA software Pvt Ltd is a supply chain solutions company. It has a very relaxed work-life. The teams are result oriented and my project majorly encompassed web development and shell automating. Tool used (Development tools - H/w, S/w) : Powershell, Web development, database management Objectives of the project : 3 different Automation projects Major Learning Outcomes : .net, web development, dbms Details of Papers/patents : None Brief Description of working environment, expectations from the company : Flexible timing, result oriented projects, supportive seniors Academic courses relevant to the project : Enough time provide to develop skill hands on	2018-19-sem2

Company	Experience	Year
JDA Software Solutions , Bangalore		2019-20-sem2
JDA Software Solutions , Bangalore	Developed a regression testing suite for unit testing of SAP adapter with the help of JAVA and FitNesse, the suite included connections to SAP, API calls to create , update and delete the data, to fetch the data and to pass it to the adapter and the taking it into a message broker and validating the messages. Bug fixes and implementation of new features in other projects. Tool used (Development tools - H/w, S/w) : Apache activemq, JAVA, FitNesse, Junit, Maven, Mule anypoint studio Objectives of the project : To develop a testing suite for unit testing of SAP integration adapter. Major Learning Outcomes : Better working with bigger code bases Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Good working environment, quite flexible office timings . Academic courses relevant to the project : NA	2019-20-sem2

Company	Experience	Year
JDA Software Solutions , Bangalore	Project 1. The installation process of the WMS environment is a very pain staking and time consuming task. For employees, it is very important to cut down on time wastage, as it adds to the productiveness of the company. Hence, the automation of the installation process was the absolute need of the hour. Project 2. The latest version of the JDA Windows WMS software has a lot of issues with its UI, which have to be resolved before releasing the new version to the clients for further use. Project 3. With any software, in its initial stages, there are a lot of issues that must be resolved. Finding those errors is a very important task, as these errors, if not escalated and brought to the attention of the concerned parties, may then further be incorporated into the final build of the software. This would lead to the customers using this faulty edition of the software, and dealing with inconveniences. This reduces customer value proposition, and can even lead to loss of customers due to a dissatisfying experience. Hence, it is extremely important to test the software well and report all the errors, so as to ensure effective performance of the software, as well as avoiding failures in the initial stages of the build and avoiding expensive amendments in the later stages of development. Tool used (Development tools - H/w, S/w) : Activex, ANT, RedPrairie, Visual Studio, Git Bash, Perl, Java development kits, Python, SourceTree, SQL, Eclipse, Git bash, TCCLE, AppServer, windows batch script, Mongodb Compass, Postman, JIRA, Putty, WinSCP, Oracle18, LINUX, InstallAnywhere, SQL server Objectives of the project : Project 1: Each repository takes quite a while to build, each taking an average of 25 minutes. Moreover, every build step encountered various problems, such as the master versions not being correct, or the Java version not being the right one. Hence the Major Learning Outcomes : Improving on coding skills(Java and Python), building databases on DBMS like SQL developer and SQL server, better understanding of the company product, development of the product and its features, warehouse management strategies and workflow, learning the Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Supply chain management, Object Oriented Programming, Data Structures and Algorithms.	2019-20-sem2

Company	Experience	Year
JDA Software Solutions , Bangalore	Worked on developing tools to help in automated API and adapter testing. Continuous integration (CI) and continuous delivery (CD) pipeline development for cloud deployment of JDA connect on Azure. Tool used (Development tools - H/w, S/w) : Anypoint Studio,Python,Groovy,BatchScript Objectives of the project : Developement of an Integrated and Automated environment for JDA Connect Major Learning Outcomes : Work flow in a workplace environment Details of Papers/patents : Brief Description of working environment, expectations from the company : The workplace was very employee-friendly with flexible timings and people in the team had apt knowledge of how the project, JDA Connect, was developed and worked in its entirety. Academic courses relevant to the project : Object Oriented Programming, Network Programming	2019-20-sem2
JDA Software Solutions , Bangalore	During my PS-2, I worked on 2 separate projects. First project was to extract company data from remote servers by hitting JIRA rest API's. We then conducted some algorithmic analysis on the data using python. Second project was to create a machine learning model to predict the time taken to complete different software problems and issues faced by employees and customers. Several parameters like severity, issue type etc were considered. I was able to complete the projects with desirable results and learnt a decent amount from the experience. Tool used (Development tools - H/w, S/w) : ML python libraries(scikit-learn, numpy, pandas), python, Jenkins, JIRA rest API's Objectives of the project : Extraction and analysis of company data, ML model to predict time taken to solve issues. Major Learning Outcomes : Learnt to work with API's and create ML models. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment was decent. Initially, I was given a bunch of side projects to work on, which I was able to complete easily. Academic courses relevant to the project : Machine learning courses. Expect work along lines of testing, data collection, data cleaning etc., in case of most departments. Academic courses relevant to the project : None. A few OOP and database concepts will inevitably be used as in any soft dev role.	2019-20-sem2
JDA Software Solutions , Hyderabad		2019-20-sem2

Company	Experience	Year
JDA Software Solutions , Hyderabad	Project consisted of making a Sales Dashboard using React.js. The dashboard consisted of Charts and visualizations reflecting the sales data which was fetched from a oracle database. Mostly the project work was comprised of frontend development which used React.js libraries and bootstrap except for the backend part where a REST api was made by using Node.js and express.js library. Tool used (Development tools - H/w, S/w) : React.js and node.js Objectives of the project : Sales Dashboard Major Learning Outcomes : Front end development and some operations in the Back end. Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment is really friendly and the team members help you in every step of the way. Academic courses relevant to the project : nothing in particular	2019-20-sem2
JDA Software Solutions , Hyderabad	My project was to develop a microservice for Assortment Planning which generates 7 CSV's in GCP and appends the computed data to those CSV's when a client requests data and also to add an export job which gives error message about the status of the task. Also, I worked on automating test cases. Tool used (Development tools - H/w, S/w) : Java, Google cloud Platform, Protractor, Selenium Objectives of the project : Microservice development and Automation Major Learning Outcomes : Springboot, Angular 7, JavaScript, Automation Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Object Oriented Programming	2019-20-sem2
JDA Software Solutions, Bangalore	Worked on python3 for performance testing and manual testing. Tools used (Development tools - H/w, S/w):python3. Objectives of the project: Supply Chain Strategist. Major Learning Outcomes: python3. Brief Description of working environment, expectations from the company: Excellent Company and Great Management very fine place to work with.	2016-17-sem2

Company	Experience	Year
JDA Software Solutions, Bangalore	I joined my intern at JDA Software (Bangalore) as Product Development-Intern. I was fortunate enough to work on JDA Connect projects which was completely new project, helped me grow as an engineer by developing my core skills and knowledge. This was a great opportunity for me to bring my coding standards at par with the essional world. I was given opportunity to work on Front end development of Connect Product. I Developed few SPA UI using ExtJS framework and also worked on JS UnitTesting, UI Automation and Jenkins etc.Very thankful to BITS Pilani for providing me this oppurtunity. It most certainly helped in having a clearer picture of what to aim for in the future and the mentoring and contacts made through this program are more valuable than anything else. Tools used (Development tools - H/w, S/w): ExtJs, JQuery, Jenkins, SinonJs, MochaJs, Fitnesse and AJAX Objectives of the project: Front end Development of JDA Connect including JS Unit Testing and UI Automation. Outcomes of the project: Developed few single page applications UI for handling lacs of records to sustain high traffic data management for JDA Connect. Integrated the application to JDA's Connect server using REST to access JSON data by making AJAX calls from client side. Carried out quality assurance tests like JS Unit Testing using SinonJs and UI Automation using Fitnesse framework to discover errors and optimize usability. Major Learning Outcomes: Learnt Javascript Frameworks like ExtJS, AngularJs. JS Unit Testing using MochaJs and SinonJs, UI Automation using Fitnesse and JDA's Selenium drivers. Jenkins etc. Brief Description of working environment, expectations from the company: JDA Software have very good working environment.Good Work & life Balance, Great place to learn new things.Very Helpful Mentors.	2016-17-sem2

Company	Experience	Year
JDA Software Solutions, Hyderabad	I'm part of Enterprise Store Operations (ESO) Product Development Team as their Quality Tester. My responsibility during my internship includes functional testing for the product in case any changes were made either during development or as part of defect fixing, security testing and automating testing scenarios. Tools used (Development tools - H/w, S/w): JAVA, Eclipse, Selenium, Cucumber, IBM AppScan and JIRA Objectives of the project: Software Testing Outcomes of the project: Learned the various standard practices and measures undertaken by product based software companies. Also how product security is ensured to prevent leak of clients confidential data. Major Learning Outcomes: An overview working in IT sector, hands on with various industry standard tools. Experience of working as a Quality Tester and Security Tester. Brief Description of working environment, expectations from the company: Work environment is good, your personal space is respected. Employees in general are cheerful and approachable in case of any problem. One of the major plus point is the work life balance, timing is very flexible and work related pressure is moderate. Honestly, can't think of any cons regarding work environment. To be honest, I didn't had any expectation before joining this company, but I was pleasantly surprised with quality of work I was offered from the start. I was treated as a full time employee would be and was given similar responsibilities.	2016-17-sem2
JDA Software Solutions, Hyderabad	Creating & testing batch scripts & sql scripts for the product environment & automation. Tools used (Development tools - H/w, S/w): Toad for oracle, Git, Windows batch programming, Jenkins. Objectives of the project: To create new environment & jobs through Jenkins based on the previous version of the product & run all test cases & support the development team. Major Learning Outcomes: Learning Java & how to write scripts & to solve the defects.	2016-17-sem2

Company	Experience	Year
JDA Software Solutions, Hyderabad	Mostly Worked on Configuration Management tools like BitBucket, Jira, Jenkins and looking after their requests, nothing great. Tools used (Development tools - H/w, S/w): BitBucket, Jira, Jenkins, putty. Objectives of the project: Development and Support the CM Team and learn their way of doing things. Outcomes of the project: Learned the above mentioned tools and nothing much. Major Learning Outcomes: Got an Understanding of how the IT sector, Service based companies and Product based companies work. Brief Description of working environment, expectations from the company: Working Environment is not that great, it's a mainstream office with 3 floors and a cafeteria, it is a company for people who are looking to settle and definitely not for freshers as they learning curve is not so good.	2016-17-sem2
John F Welch Technology Center (GE) , Bangalore		2018-19-sem2
John F Welch Technology Center (GE) , Bangalore	The literature survey on Jet Engine Mechanical Component Labyrinth Seal is done to get the understanding of present state of development in this topic. In other part, An ANSYS APDL macro is developed to ease and expedite the Analysis Procedure. Tool used (Development tools - H/w, S/w) : Ansys Mechanical APDL Objectives of the project : Literature survey on labyrinth seal and Creation of Ansys APDL macro to expedite the analysis process. Major Learning Outcomes : Learned the APDL coding. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Fracture Mechanics, CFD, Vibration	2018-19-sem2
John F Welch Technology Center (GE) , Bangalore		2019-20-sem2

Company	Experience	Year
John F Welch Technology Center (GE) , Bangalore	Complete geometrical markup of 3 major powerplant projects being taken up by the company (GE), came up with novel methodologies using VB Script to support the engineering team and reduce the engineering time it would've taken for requisite domain work. Working as a support base to local R&D team as well as international engineering teams to make headway in the field of Powerplant automation. Tool used (Development tools - H/w, S/w) : AVEVA E3D, MS VB Script Objectives of the project : To understand and put to use, the principles used in GA of Boiler Ducts and requisite appraisal of novel methodology devised to aid in the same Major Learning Outcomes : Understood and had the opportunity to experience, first hand, the importance of collaborative work and team-play. I also gained technical proficiency in a variety of senses, software - AVEVA E3D, Microsoft VBScript, etc, and broadened domain knowledge. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is conducive to new ideas and innovations made are duly encouraged and provided suitable ground. Co-Workers are helpful to rule out any and all doubts and discrepancies in the work methodology. Meritocracy is evident in the day to day proceedings of the company and interns are encouraged to make full use of the opportunity at hand, by involving in extra-curricular activities, apart from work. Academic courses relevant to the project : Computer Aided Design, Power Plant Engineering, Applied Thermodynamics	2019-20-sem2
John F Welch Technology Center (GE) , Bangalore	I worked on Particle simulations in simple pipe geometries and did sensitivity analysis. I have suggested changes in burner geometry according to our igniter and got tested, validated through experiments. Tool used (Development tools - H/w, S/w) : ICEM CFD, Ansys-fluent Objectives of the project : CFD Simulations in Pipe Geometries Major Learning Outcomes : Presentation Skills, Meshing Software, Simulations Software Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Computational Fluid Dynamics	2019-20-sem2

Company	Experience	Year
John F Welch Technology Center (GE) , Bangalore	To start of, the first task was to understand the existing methods and technologies used for gas turbine rotor damping and the basics of working of gas turbine engine and provide a holistic view of existing scenario in this regard with identification of research gaps. Subsequently, finalization of an idea which can be developed into a product used for rotor damping was done after all the considerations. Finally, model setup and various computer analysis and simulations were performed to get the results of approximate damping achieved by using that idea which were converted into interpretable graphs and tables with a little bit of design optimization to validate the concept and set a reference for physical tests Tool used (Development tools - H/w, S/w) : 1. Siemens NX 2. ANSYS APDL 3. Some proprietary software developed by the organization themselves for various analysis 4. MS Office Objectives of the project : The aim of the project to fill an existing research gap in the field of gas turbine rotor damping and develop a new product that can be used in the machines to provide rotor damping Major Learning Outcomes : A lot of knowledge about the basics of gas turbine engine working in real conditions and design philosophy was gained. Hands on experience with computer software for modelling and analysis. Concepts of strength of materials, finite elements analysis and v Details of Papers/patents : None Brief Description of working environment, expectations from the company : In my opinion, this company has one of the best working environments. You are provided all kind of freedom as long as you are completing the work responsibly and in time. Great office campus with lots of facilities. The people here are really helpful and would happily take time out to guide you through your task. Academic courses relevant to the project : Computer aided design, Primemovers and fluid machines, Mechanical vibrations	2019-20-sem2
JP Morgan Chase - Technology , Bangalore	Student	2019-20-sem2

Company	Experience	Year
JP Morgan Chase - Technology , Bangalore	My project that is, development of Tax Engine for statutory corporate tax payments is one of the most vital projects for the biggest bank in United States, JP Morgan chase. The basic goal of the project was to unify the payment portal already existing in India, ILAS with the a unified payment portal which is already serving 4 nations. At mid-way of the project that is till September end, the progress I achieved was that of being done with the architecture of the project and identifying the components where we would apply the required technologies. The development of Transformers (Serialization and Deserialization) was done so that basic conversion from JSON to POJO (Plain old Java Object) and back. At the time of me leaving the project due to the end of my internship, I find myself done with about 60% of the project. This 60% project has been tested individually to test if the code which has been written works well. The corporate tax system henceforth developed would work in conjecture with some other countries too. Tool used (Development tools - H/w, S/w) : Spring Boot, Spring Integration, IBM MQs. Objectives of the project : Migration of ILAS to TE for statutory payments and providing further enhancements Major Learning Outcomes : Development of high and low level architecture according to the requirements. Learning Java Development Framework, spring and using it on a live project. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : OOP	2019-20-sem2

Company	Experience	Year
JP Morgan Chase - Technology , Bangalore	Project 1: Developed the backend of the project using spring boot. Used JDBC template to fetch the data from the database. For frontend react and redux were used. Project 2: Used spring-boot and hibernate to fetch data from the database and created JSON objects. Later the objects were pushed to private cloud using S3 api and a POC was done using APACHE drill that could further help the company during audits and reference. Tool used (Development tools - H/w, S/w) : Java, Spring, Hibernate, React, Databases Objectives of the project : Project 1: To develop a web portal which helps to coordinate between different departments of trade. To reduce manual updating of the server details and automate the process using spring-boot, react, JDBC template etc. Project 2: To reduce the cost incurred. Major Learning Outcomes : Complete Web development and deployment Details of Papers/patents : - Brief Description of working environment, expectations from the company : Nice work culture and flexible timings Academic courses relevant to the project : DSA OOP	2019-20-sem2
JP Morgan Chase - Technology , Bangalore	Involved in developing backend services for an internal tool (website) for workflow management. Tool used (Development tools - H/w, S/w) : Java, Spring Boot Framework, Camunda BPMN Engine Objectives of the project : Develop a tool for workflow management for business processes internal to the firm. Major Learning Outcomes : Backend website development Details of Papers/patents : Brief Description of working environment, expectations from the company : The project alotted varies depending on the team. The workload is comfortable and there are enough learning opportunities. The work environment and infrastructure is good. Academic courses relevant to the project : Object Oriented Programming	2019-20-sem2

Company	Experience	Year
JP Morgan Chase - Technology , Bangalore	Full stack development ,Automation using Selenium ,Performance and Load Testing ,Spark Machine Learning Tool used (Development tools - H/w, S/w) : Jmeter,Test complete ,Bit bucket ,Jenkins Objectives of the project : 1.Delelopment of a Screen comparison tool to comapre the differences between two different environment of same web page and highlight the chages with red rectangles . 2 .To create a Testframe work where we can perform Load testing of different pages. Major Learning Outcomes : Java,Selenium,Spring boot,ReactJs,Websockets,Jmeter ,Load Runner ,Spark Machine Learning ,Automation of UI testing Details of Papers/patents : Brief Description of working environment, expectations from the company : Environment is good people are helpful .Time is flexible .Mostly you can expect work related to Full stack development and Data base Management system . There are few project on advanced technologies like Big data and Machine Learning but these projects are few and it depends in which team you are since all the teams doesn't have these projects. Academic courses relevant to the project : Object Oriented Programming, DBMS ,Artificial Intelligence and Machine Learning	2019-20-sem2
JP Morgan Services - GKN Risk Analytics - Finance ,	Bangalore	2019-20-sem2
JP Morgan Services - GKN Risk Analytics - Finance ,	Creating a new Test and Control matching algorithm for Consumer Requested Credit Line Strategy . Analysis and recommendation of a new strategy to decline a certain segment of applicants who are applying for credit line increase. Tool used (Development tools - H/w, S/w) : SAS, SQL, Excel, PowerPoint Objectives of the project : Improvement of a technique and analysis of a new strategy Major Learning Outcomes : Understanding of how strategies work Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : None	2019-20-sem2
JP Morgan Services GKN Banking(CRG)Finance , Mumbai		2019-20-sem2

Company	Experience	Year
JP Morgan Services GKN Banking(CRG)Finance , Mumbai	CRG is the support office to Front End IB of JP Morgan. There are sector teams inclusive of all industries. Work is related to M&As across various industries. The nature of work is dynamic depending on the scope of the deals. As all deals are pretty specific to their domains. We are supposed to deliver tailor made solutions for every deal. Tool used (Development tools - H/w, S/w) : Bloomberg and Microsoft Office Objectives of the project : An individual project is allocated to every interns during the end of the period in which one is supposed to work on industry trends, idea generation and valuation for a specific sell side target Major Learning Outcomes : Attention to detail and Analytical mindset Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Work is dynamic and one is expected to receive a wide array of work. Working hours are quite hectic especially during the execution of deals. The company expects the analyst to be eager to learn and perform accordingly Academic courses relevant to the project : Financial Management	2019-20-sem2
JP Morgan Services GKN Banking(CRG)Finance , Mumbai	Created VBA modules that can be used by all, some updates specific to some teams have slight variations in their backups/ chart types. Hence the BUA type of work involving a specific update of a specific team utilizes these modules with slight variation and certain additional programming for additional tasks if any to make the entire weekly update happen in a single click. Tool used (Development tools - H/w, S/w) : VBA, Python Objectives of the project : Automate repititive tasks done by the Bankers in Mumbai office Major Learning Outcomes : Python and VBA Details of Papers/patents : Brief Description of working environment, expectations from the company : In conclusion, the internship has helped me sharpen my skills and gain confidence in them. I also gained industry experience since I got to work with various teams in various sectors and regions. This would certainly be a great help in my career ahead. The current scope of automation in JP Morgan is immense and it would be greatly advantageous to the company to push for large scale modular projects which can help across all teams Academic courses relevant to the project : None	2019-20-sem2
JP Morgan Services-GKN GlobalResearch(GRC)Finance ,	Mumbai Student	2019-20-sem2

Company	Experience	Year
JP Morgan Services-GKN GlobalResearch(GRC)Finance ,	My work was based on equity research and sector analysis. Keeping a track of 17 companies on daily basis. Building financial models for 2 companies from scratch, updating and reorganising existing databases, models and client marketing decks based on the available public information. Preparing weekly and quarterly research reports for companies under coverage. Tool used (Development tools - H/w, S/w) : MS-Excel, VBA, MS-Office Objectives of the project : To thoroughly understand the sector dynamics and understand the revenue and growth drivers for companies under coverage thereby providing with inputs for research reports Major Learning Outcomes : Macroeconomic understanding of the sector, understanding of financial statements and analysis, understanding of corporate culture into the field of equity research and application of the content from college curriculum courses. Details of Papers/patents : Brief Description of working environment, expectations from the company : Very professional working environment. Academic courses relevant to the project : Fundamentals of finance & Accounting, Financial Management, Business analysis and Valuation.	2019-20-sem2

Company	Experience	Year
JP Morgan Services-GKN GlobalResearch(GRC)Finance ,	Work: I am in an European Equity Research team. We forecast the performance of stocks through valuation. We focus on updating financial models and expectations as earnings releases (Quarterly or Annual) of the companies come out. On the basis of our valuation, we rate the stock as underweight, neutral or overweight. Along with this, there are many daily and weekly notes which we publish. PPO chances: ~60% based on historical figures (depends mainly if there is a vacancy or not) Reach out to me if you have any other query regarding this profile. Tool used (Development tools - H/w, S/w) : Advanced Excel, VBA (Beginner level) Objectives of the project : Equity Research: Valuation of companies through financial models Major Learning Outcomes : Understanding of equity research, model forecast, valuation, enhancement of Excel skills and knowledge of the particular market you are working in. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : I'll be here for both of my semesters. Although working hours are long, work environment is good. You can easily reach out to seniors (a lot of BITSians here) if you face any problem. You get to experience the feel of working in Corporate and how to deal with it while maintaining work life balance. Academic courses relevant to the project : Fundamentals of Finance and Accounting (very important), Business Analysis and Valuation, Financial Management, Security Analysis and Portfolio Management, Derivatives and Risk Management	2019-20-sem2

Company	Experience	Year
JP Morgan Services-GKN GlobalResearch(GRC)Finance ,	Creating financial models and updating the models for the quarterly results, publishing notes with recommendations, sourcing data from various sources for clients and regular work. Preparing presentation with sector and company outlooks. Working with associates from across the region to create reports giving macro outlook and company valuation, price targets and company specific risks and rewards. Tool used (Development tools - H/w, S/w) : Excel, PowerPoint, Word, VBA, Bloomberg Objectives of the project : Creating financial models for companies and doing due-diligence work to provide recommendations and data for companies.. Major Learning Outcomes : Deeper understanding of accounting and valuation principles and the sectors you work in. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment relaxed and the people are good and cooperative. Company expects you to know the basics and have professional attitude. Academic courses relevant to the project : FOFA, FM, BAV, DRM	2019-20-sem2
JP Morgan Services-GKN GlobalResearch(GRC)Finance ,	The work involves analysing company financials, performing ratio analysis and financial modeling to give a Rating to a stocks (Buy/hold/sell). The task involved was updating the financials of the companies and maintaining Models. I grabbed the opportunity to learn Visual Basic and make macros to automate certain web scraping tasks for the team Tool used (Development tools - H/w, S/w) : Excel, VBA, Bloomberg, Objectives of the project : Equity Research Major Learning Outcomes : Understand the driver and catalysts of stock markets; Financial Modelling and Valuation Details of Papers/patents : Brief Description of working environment, expectations from the company : J P Morgan was a holistically rewarding experience that works to maximize your potential. In Equity Research, we were assigned different teams and sectors. I got a chance to be in the U.S healthcare Distribution and Technology team where I spent the first few weeks going through the industry primers and companies models in our coverage. The work gave me a broad understanding of how the companies functions and what all catalysts and drivers can affect the stock price. Academic courses relevant to the project : Buisness Analysis Valuation, Technical Report Writing, Fundamentals of Financial Accounting	2019-20-sem2

Company	Experience	Year
JP Morgan Services-GKN GlobalResearch(GRC)Finance ,	I am a part of a 4 member team covering European Small Midcap companies. Two of them sit in London and two in Mumbai. We look at Europe as a whole and do not focus on any specific sector like in Equity research. As per our list of monthly deliverables, the team prepares reports which can be weekly, monthly or quarterly. These reports provide our views of the region from a fundamental, valuation and sentiment standpoint. These reports can then be used by investors to understand the market direction better and make investing decisions. In between all of this, you are expected to prepare charts, drafts, screens, run queries for these reports. It involves a lot of Excel, Access work and requires you to have a basic understanding of VBA and SQL. The work hours can be stretched once in a while depending upon deadlines. The work can be a little repetitive at times but there are things you can extract out of this team depending on how sincere and interested you are. Tool used (Development tools - H/w, S/w) : Excel, Access, VBA, SQL, Bloomberg Objectives of the project : EMEA Small MidCaps Equity Strategy Major Learning Outcomes : 1. VBA, SQL, Access, Bloomberg (Technology wise). 2. Responsibility, Discipline, Accuracy, Professionalism, Time Management 3. Conducting Fundamental, Valuation, Sentiment Analysis. Details of Papers/patents : Nil Brief Description of working environment, expectations from the company : JP Morgan is one of the biggest names in the Industry. You can expect the working environment to be highly professional and organised. They have a very well laid out internship structure. Colleagues are very friendly and understanding. Academic courses relevant to the project : Finance Courses, MacroEconomics	2019-20-sem2
JP Morgan Services-GKN Markets &Treasury Risk-Finance ,	Mumbai Student	2019-20-sem2

Company	Experience	Year
JP Morgan Services-GKN Markets &Treasury Risk-Finance ,	Two categories of work was there. One was a BAU(Business as usual) and the other was a project type work allotted to me. In the BAU part I had to do the daily VaR analysis for the Currencies and Emerging Markets line of business. It gave me a financial Outlook. The other part was the project part which consisted of tool automation. It was based on Python and Object oriented programming. Tool used (Development tools - H/w, S/w) : S/w - Microsoft Visual Studio, Excel. Objectives of the project : Daily Report Automation Major Learning Outcomes : Got to learn a lot about tool developement on the technical side and financial analysis on the finance side. Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : Academic courses relevant to the project : DRM, MBFM ,FINMAN, OOP.	2019-20-sem2
JP Morgan Services-GKN Markets &Treasury Risk-Finance ,	As a member of team of a Liquidity Risk Oversight team under CTC risk Department, I helped in fast advancements and improvements in work done in various projects. My team manages the firm's capital, balance sheet, liquidity and funding strategy and positions, including short dated and secured funding, debt and capital issuance and buybacks, and liquidity risk management, as well as the company's rating agency relationships and corporate insurance activities. My team is responsible for Firmwide Liquidity Risk and Interest Rate Risk Management. I had a significant contribution in a project taken my manager which will be presented to head of department Tool used (Development tools - H/w, S/w) : Bloomberg Terminal, Excel Objectives of the project : Liquidity and Interest rate risk impact analysis on JP Morgan business by major stressed sectors & economy outlook of India Major Learning Outcomes : Data Analytics Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : none	2019-20-sem2

Company	Experience	Year
JP Morgan Services-GKN Markets &Treasury Risk-Finance ,	Conducted a project on Negative Yielding Debt and its impact on the banking, pension and insurance sector. As more and more of the world's outstanding debt turns negative yielding, it is important to assess the impacts of this on various financial institutions. The purpose of this study is to assess changes in asset allocation and impact on earnings in various industries that are exposed to negative rates, namely banking, pension and insurance firms. The study also examines the effectiveness of negative interest rate policy and whether it has actually achieved the objectives central banks hoped it would. Tool used (Development tools - H/w, S/w) : VBA Objectives of the project : To assess the impact of negative rates on the banking, pension and insurance sector. Major Learning Outcomes : • Learnt about the influence of geopolitical events on market movements and how the market is driven by these. • Learnt about various risk sensitivities like VaR, DV01, BPV, CS01. • Understood the concept of negative yields and negative interest rate poli Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Derivatives and Risk Management, Security Analysis and Portfolio Management	2019-20-sem2
JP Morgan Services-GKN Markets &Treasury Risk-Finance ,	Implementation of FRTB rules and understanding different methodology used to calculate capital charge for assets on firm books. Using different methodology to explain the movement in capital charge week on week and explain the reason of outliers. Tool used (Development tools - H/w, S/w) : S/w : Python, Excel and Tableau Objectives of the project : Automation of weekly analysis of strategic capital numbers and implementation of FRTB rules Major Learning Outcomes : Firm grip over python, Excel, Tableau and Market Risk concepts Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Derivatives and Risk management, Financial Engineering, Computer programming, Probability and Statistics	2019-20-sem2
JP Morgan Services-GKN Markets(GMG)Finance , Mumbai		2019-20-sem2

Company	Experience	Year
JP Morgan Services-GKN Markets(GMG)Finance , Mumbai	The Global Markets Group (GMG) of the company works on the pricing and pitching of all kinds of trades that happen all across the world. This involves the creation of different kinds of trade products for their clients as well as their pricing and sales. The work in the Markets group revolves around the creation of such products which would appeal to the different risk behavioural clients. The next important step comes to placing a competitive price for their products and reaching out to a large number of clients all across the globe. I have worked on both the index creation as well as the pricing part initially but later my work shifted onto primarily focusing on the pricing side. The aim of the project was to automate the pricing process that occurs on a daily basis in large amounts in Markets. Tool used (Development tools - H/w, S/w) : VBA, Python, Advanced Excel Objectives of the project : Automation of Pricing of Various Trade Products Major Learning Outcomes : Coding in VBA and Python, Knowledge about the different structured products trading around the world. Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment is very friendly. Everyone is always willing to help you with any doubts about the work. Academic courses relevant to the project : Derivatives and Risk Management (DRM), Security Analysis and Portfolio Management (SAPM)	2019-20-sem2
JP Morgan Services-GKN Markets(GMG)Finance , Mumbai	Work done mostly involved understanding and developing codes for new indices(based on client agreed guidelines) to facilitate upcoming trades across geographies. Tool used (Development tools - H/w, S/w) : Python based software, Microsoft Excel Objectives of the project : Algorithmic Trading Strategies and Index Structuring Major Learning Outcomes : Understanding of how indices are structured and worked on, delivering work on tight timelines, working and gaining understanding different products that the company offers. Details of Papers/patents : - Brief Description of working environment, expectations from the company : People in the company and department are extremely friendly and helpful. Most of the employees are graduates from premier engineering colleges of India which gives exposure to working in competitive work space. Academic courses relevant to the project : Derivatives and Risk Management, Security Analysis and Portfolio Management	2019-20-sem2

Company	Experience	Year
JP Morgan Services-GKN Quantitative Research-Fintech ,	Mumbai	2019-20-sem2
JP Morgan Services-GKN Quantitative Research-Fintech ,	I worked on Propritery JPMS software to calculate capital requirements under FRTB Internal Models approach Tool used (Development tools - H/w, S/w) : Python Objectives of the project : Calculate capital requirements Major Learning Outcomes : Python, Databases Details of Papers/patents : Brief Description of working environment, expectations from the company : Very good working environment. Above expectations. Academic courses relevant to the project : Object Oriented Programming	2019-20-sem2
JP Morgan Services-GKN Quantitative Research-Fintech ,	Worked on feature selection using Zero Norm and Sequential Monte Carlo. Performed unit-testing and profiling of proprietary trade scheduling tool. Tool used (Development tools - H/w, S/w) : Python, Q, R Objectives of the project : Feature selection using Zero Norm and Sequential Monte Carlo Major Learning Outcomes : Sequential Monte Carlo,Learnt Python, Multiprocessing,multithreading, feature selection Details of Papers/patents : None Brief Description of working environment, expectations from the company : Very collaborative and friendly. People are very smart and approachable. All expectations met. Academic courses relevant to the project : Machine Learning, Artificial Intelligence, Statistical inference and application	2019-20-sem2
JP Morgan Services-GKN Quantitative Research-Fintech ,	I am in the Wholesale Credit Team of the Quantitative Research and helped to find the Risk associated of a portfolio from the perspective of two different models for risk estimation. Tool used (Development tools - H/w, S/w) : Spyder and Python, Excel , Word, IntelliJ Objectives of the project : Calculate Credit Risk for a specific portfolio Major Learning Outcomes : Pandas and Finance Knowledge Details of Papers/patents : None Brief Description of working environment, expectations from the company : The working environment is very good, people are friendly and helpful. Academic courses relevant to the project : Data Mining	2019-20-sem2
JPMC - Technology , Mumbai		2019-20-sem2

Company	Experience	Year
JPMC - Technology , Mumbai	KUBERNETES(Container orchestration technology for cloud native applications) , Private JPMorgan cloud, Springboot JAVA. Tool used (Development tools - H/w, S/w) : JAVA SPRINGBOOT, REACT REDUX, KUBERNETES, JSON, XML, INTELLIJ, LINUX Objectives of the project : Build a Java springboot application and deployment on cloud as well as kubernetes cloud. Major Learning Outcomes : Kubernetes, Springboot framework and libraries widely used and adopted by major industries, Details of Papers/patents : Brief Description of working environment, expectations from the company : Good culture and helpful team. Academic courses relevant to the project : OOP, OS	2019-20-sem2
JPMC - Technology , Mumbai	I have been involved in two projects during my internship. The first project is about building a dashboard using R shiny which provides an interactive graphical representation of real time updates of various accounts and userbanks. The dashboard is also equipped with advanced features like drill-down, hovering events, customize plots etc. Moreover, in the later half of my tenure, I have also included prediction part for detecting the failures possibility of any execution. The second project is related to authentication of a self-learning chatbot by adding entitlement service to the project. Tool used (Development tools - H/w, S/w) : R, Python, Postman, IntelliJ, Oracle SQL developer Objectives of the project : Building dashboard for graphical representation of data using R Shiny and implementation of machine learning algorithm for predictive analysis of NAV fund Major Learning Outcomes : It has been a great experience as both the projects offer a lot to learn. It helps me in improving my technical skills a lot and also makes me understand how different application and various technologies integrate to work at a commercial level. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : OOP, OS, DBMS, NNFL.	2019-20-sem2

Company	Experience	Year
JPMC - Technology , Mumbai	I was assigned a task to work on a application which has huge amount of lines of code which was uncalled for. So, I was assigned to understand the flow and remove all the unnecessary code for the application to optimize and fixing the bugs in the both backend and Front end of the application. Also to increase the test coverage to more than 50% which includes fixing the old ones which uses some dependency from the net or the database and also writing new ones. I completed the task successfully. After that I was assigned some smaller tasks and POC for trying out different databases for the application including cloud database as well. The POC also used Django Framework. Also worked on creating a view for data display, which used Python and perl scripts. Tool used (Development tools - H/w, S/w) : Java, Spring Framework, Python, Django, Junit and Mockito Objectives of the project : Fixing the Application. Major Learning Outcomes : Spring Framework, Django Framework. Culture of Corporate world. Details of Papers/patents : Brief Description of working environment, expectations from the company : Everyone is really helpful there. Good place to work even if you do not have prior experience with coding. Academic courses relevant to the project : Object Oriented Programming	2019-20-sem2

Company	Experience	Year
JPMC - Technology , Mumbai	I was a part of 2 major projects, and a couple of minor ones. The first project involved developing multi-tab dashboard using R that collated data from a dozen independent sources and presented the output information in the form of data visualizations with the goal of communicating necessary insights to senior executives.The second project on the other hand involved full stack web development with Angular JS , HTML, CSS frontend/ Java(Spring Boot) backend. Other minor projects involved data analysis using tableau or automation of existing processes. Tool used (Development tools - H/w, S/w) : Java/AngularJS/HTML/SQL for the web development project + R/Python for dashboard design Objectives of the project : Software Development & Dashboard Design Major Learning Outcomes : Software Development & Dashboard Design Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Working conditions are awesome, flexible working hours and you get a lot of added perks such as free transport services and sodexo cards. JPMC offers a wide variety of projects suited to your resume and profile, and you have to option to switch if you don't like the one assigned. Team members are always happpy to help you out if you get stuck. Academic courses relevant to the project : DSA, OOP, DBMS, Foundations of Data Science	2019-20-sem2
JPMC - Technology , Mumbai	Building an Integration Test Suite which automates browser testing and validates data with another instance of the same application using Selenium Webdriver. Tool used (Development tools - H/w, S/w) : Gherkin, Cucumber, Selenium Webdriver Js, TypeScript, Node.js, react.js, VS Code, jules, jenkins, groovy Objectives of the project : Building an Integration Test Suite for Data Validation Major Learning Outcomes : Understanding the complete workflow of a firm and it's functioning. Gaining a business perspective for a project. Improving certain soft skills and confidence while having 1-1 discussions with senior executives. Details of Papers/patents : Brief Description of working environment, expectations from the company : The company provides good learning and a friendly atmosphere. You are expected to finish your work before the deadline. They want us to be inquisitive and be able to learn from our mistakes. Academic courses relevant to the project : Object Oriented Programming, Data Structures & Algorithms	2019-20-sem2

Company	Experience	Year
Juniper Networks , Bangalore		2018-19-sem2
Juniper Networks , Bangalore	1. Understand the specifications for fabric reorder block. 2. Development of fabric reorder model. 3. Porting of existing test cases for the new model 4. Regression testing of new model 5. Characterization of simulation speed with new model Tool used (Development tools - H/w, S/w) : System Verilog UVM Objectives of the project : Good quality model that can be used in future silicon validation Major Learning Outcomes : Learning how silicon verification works, understanding the flow of router chips. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Computer Architecture Digital Design	2018-19-sem2
Knorr-Bremse Technology Center India Private Limited ,	Pune	2019-20-sem2
Knorr-Bremse Technology Center India Private Limited ,	The project assigned to me was to develop a privacy protection tool. Company uses ADAS systems which consists of several cameras and other sensors on vehicles. These cameras captures private information like faces of pedestrians and licence plates of people around it. The goal was to develop a tool that detects faces and number plates and blur them using deep learning and neural networks. Tool used (Development tools - H/w, S/w) : S/w: Pycharm, Anaconda, Darknet framework, YOLO models H/w: GPU(Nvidia GTX 1060 6GB) Objectives of the project : Develop a privacy protection tool Major Learning Outcomes : Learnt about agile methodology of working. Learnt about market needs and expectations in my specific field of project. Experience to develop a deep learning and neural network based tool. Details of Papers/patents : Nil Brief Description of working environment, expectations from the company : The working environment at Knorr-Bremse was good. There were no deadline as such to complete your goal. They let you decide goals and the time to achieve them. The company expected to be interested in particular field and will assign a project according to that. They give you time to learn the basics before working on the project. Academic courses relevant to the project : OOP, DIP(Digital Image processing) Online courses: Coursera Courses on deep learning and AI. Convolutional Neural Networks.	2019-20-sem2

Company	Experience	Year
Knorr-Bremse Technology Center India Private Limited ,	I worked on development of a software named EnSeGi which automates ADAS testing and Python Toolchain Migration from Python 2.7 to Python 3.7 Tool used (Development tools - H/w, S/w) : PyCharm IDE and Excel VBA Objectives of the project : To automate ADAS testing Major Learning Outcomes : Core Python Programming skills and software development in Python Details of Papers/patents : Not applicable Brief Description of working environment, expectations from the company : The work environment was very encouraging, mentors were supportive and faculty in-charge was also very supportive Academic courses relevant to the project : Computer Programming	2019-20-sem2
Kochar Tech , Gurgaon	Brief write-up on PS-II station : KocharTech, started in 2003, specializes in digitally transforming business processes by designing disruptive solutions using AI and Machine Learning technologies. KocharTech has been powering some of the Fortune 500 companies, MNCs as well as Unicorn Start-ups across Asia, Africa, Europe and the Middle East. Students have worked on projects in computer vision domain where students have to develop machine learning and AI based approaches to monitor real time footfall in a commercial outlet. Organization prefer to have students who are good researchers, can work independently with minimum mentorship and have excellent programming skills.	2019-20-sem2

Company	Experience	Year
Kochar Tech , Gurgaon	Created a real-time footfall monitoring system that was designed according to the principles of economically viable, versatile, real-time execution. Deployed my project across several commercial locations of a client with reasonable success. Tool used (Development tools - H/w, S/w) : python and related libraries, shinobiCE, dlib, spyder, anydesk Objectives of the project : 1. Record and analyze periodic footfall in a commercial location 2. Create data optimum for analyses that benefit the client Major Learning Outcomes : Knowledge of several image-processing techniques, object detection algorithms, client exposure. Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment was very open, approachable. I had the opportunity to work with several high-level executives as well as the CEO. The organisation has several people with immense knowledge and a knack for learning. If you have enough drive for your project, you will be given any and every resource you could possibly require. An incredible learning experience overall. Academic courses relevant to the project : Data Science, Image processing	2019-20-sem2
Kochar Tech , Gurgaon	I worked with the IT team of the company. Worked on different Machine Learning and Computer Vision projects. Tool used (Development tools - H/w, S/w) : NVIDIA Jetson Nano Developer Kit, Orange Pi 3, GPU 1080ti, 3D IP cameras, Python, JSON Objectives of the project : The task was to make an automated footfall counting system which avoids multiple counts for the same person by re-identifying the person and differentiating staffs from customers. Major Learning Outcomes : Proficiency in Python, Building ML models Details of Papers/patents : Brief Description of working environment, expectations from the company : In a startup you will be given plenty of work and will get to grow as a coder. KocharTech being a startup company is currently expanding in IT Department. KocharTech is currently working on different Data Science projects. Company's working hours are flexible. It's just that if you are completing your day to day work and making a progress in your project they will not say a thing to you if you come on time or not. Academic courses relevant to the project : Software Engineering Information Retrieval Probability and Statistics	2019-20-sem2

Company	Experience	Year
KPIT Technologies, Bangalore	Comments: Found the students suitable for the work. Comments: Students are expected to be punctual, self disciplined, well mannered, having tolerance to ambiguity, willing to express themselves besides technical skills that BITS is imparting. PS-II intern is supposed to settle down quickly and contribute to the organization in short notice. Student	2016-17-sem2
KPIT Technologies, Bangalore	Development of Open source platform for simulation of vehicle body systems. My part is to work on the visualisation and user input interface. This platform can import any model that can be animated using Python code which when integrated to plant model would give out a proper simulation with visualisation of that same model.The accuracy depends on the accuracy of the plant model itself. Software being open source is free for further development. Tools used (Development tools - H/w, S/w): OpenModelica, PyCharm, Inventor and PythonOCC. Objectives of the project: To create an open source simulation platform to run vehicle body system algorithm. Outcomes of the project: Just as expected and even better. A powerful Python platform that can run C algorithm for plant model. It can take up any model and run simulation for the same with visualisation capabilities. Major Learning Outcomes: Python, OpenModelica Brief Description of working environment, expectations from the company: KPIT is a service based company.The major customers are from automotive domain.The company serves their customers on their embedded systems requirement. Inspire of being a relatively small company, the work they do are worth getting hands into. For a fresher, it's an excellent space for learning new and emerging technologies. They also work with tier one companies which means greater exposure.	2016-17-sem2

Company	Experience	Year
KPIT Technologies, Bangalore	Conducted internal auditing of a construction company for 3 quarters of 2016 and first quarter of 2017. Prepared revenue model and projections for manufacturing firm and prepared their project report. Budgeting of a hotel. Tools used (Development tools - H/w, S/w): Tally, Excel, Word, Power point. Objectives of the project: Conduct the internal audit and obtain results of any fraudulent activities was there, provide them with cost cutting methods in order to improve their profits. Putting forward a effective budget for a hotel. Preparing a revenue model and project report for a manufacturing firm. Outcomes of the project: The internal audit was completed and no fraudulent activities was discovered. The budget model for the hotel was approved and awaits further process. Major Learning Outcomes: Cash Flow and Fund Flow analysis, financial modelling, Tally operation, basics of accounting, vouching, internal auditing. Brief Description of working environment, expectations from the company: The work environment and culture is quite relaxed and flexible and one of the benefits of working for a startup like leap is that we will have a hands on experience of various projects which are being undertaken by them. The mentors assigned to us are also welcoming and beneficial in nature and fully supportive.	2016-17-sem2
Kristal.AI , Bangalore	Brief write-up on PS-II station : 1.Kristal.AI provide investors with a platform which will help them hone their money-management skills with the best of technology and human acumen. Course Requirements: 1. Courses of OOP(Object Oriented Programming), 2. OS(Operating Systems), 3. DSA(Data Structures and Algorithms) 4. CP(C Programming) 5. Probability and Statistics 6. Linear algebra 7. Neural Networks and Fuzzy logic. 8. Probability and Statistics II Student Skillset: 1. Hands on experience on OOP for all interested students. 2. Backend development using Spring Boot and Java.	2019-20-sem2
Kristal.AI , Bangalore	I did 2 projects. Both were based on Quantitative Finance. First was creating a risk management system. Second was to create index tracking portfolio. Tool used (Development tools - H/w, S/w) : Python, R, Bloomberg Objectives of the project : Quantative Finance Major Learning Outcomes : Quants and Data Science Details of Papers/patents : Brief Description of working environment, expectations from the company : Great place to work. A lot of learning oppurtunities. Academic courses relevant to the project : DRM, SAPM, FinE	2019-20-sem2

Company	Experience	Year
Kristal.AI , Bangalore	Comparing Databases, Spring Cloud, Spark Tool used (Development tools - H/w, S/w) : Postgres , TimescaleDB, Spring Boot, Apache Tomcat,Apache Spark Objectives of the project : Backend Development Major Learning Outcomes : SQL, Backend Systems, Big Data Processing using Apache Spark Details of Papers/patents : Brief Description of working environment, expectations from the company : Amazing Working Enviroment , very friendly people. Academic courses relevant to the project : OOP , DBMS	2019-20-sem2
Kristal.AI , Bangalore	1] Developed Kristal.AI's Growth algorithm, worked on Kristal.ai's Asset Preservation algorithm and also built a REST API around it. 2] Reduced the bootstrapping time from 270 seconds to 15 seconds which gave us leeway to incorporate implied volatility into the bootstraps leading to better predictions. 3] Developed a Sentiment Analysis Model for Financial News data using BERT which led to a 26% improvement in accuracy over the previously used model. 4] Built an article summarization system using SummaRuNNer which will enable Kristal to push news article headline as well as a brief summary of the article to the customers leading to better user experience. Tool used (Development tools - H/w, S/w) : BERT, Pandas etc Objectives of the project : 1] Develop an efficient portfolio optimization algorithm. 2] Develop a sentiment analysis model for financial news. Major Learning Outcomes : Learnt about the finance industry, algorithmic trading, non-convex optimization techniques and BERT. Details of Papers/patents : Brief Description of working environment, expectations from the company : Excellent work and people, but PPO CTC is low. Academic courses relevant to the project : Maths-II, Probability and Statistics, Optimization, Neural Networks and Fuzzy Logic, Machine Learning	2019-20-sem2
Kruzr Mobility Technology Solutions Pvt. Ltd. , Bangalore		2019-20-sem2

Company	Experience	Year
Kruzr Mobility Technology Solutions Pvt. Ltd. , Bangalore	Worked as Android application developer and in development of "KRUZR" application. Tool used (Development tools - H/w, S/w) : Java, Android Studio, XML Objectives of the project : Notifications, network calls Major Learning Outcomes : User Interface, Notifications in Android applications Details of Papers/patents : None Brief Description of working environment, expectations from the company : Flexible environment where you can work in any role of your wish Academic courses relevant to the project : OOPS	2019-20-sem2
Kruzr Mobility Technology Solutions Pvt. Ltd. , Bangalore	I started my work in the field of Marketing and Sales. For the first 2 weeks they taught me the workings and the procedure for the work. My first few set of works was to do market research relevant to the company, like the competitors, product differentiation, relevant companies, influencers, organizations that would be interested in our company. After the research the second set of work was of sales, for which I had to find the People in the Organizations that I found earlier who would help our company grow. I found their Email IDs and then began the work of cold Mailing. After this my work was of Digital marketing. Tool used (Development tools - H/w, S/w) : Reply.io, Hootsuite, Lusha, Clearbit, Hunter.io Objectives of the project : Growth of the company Major Learning Outcomes : Marketing and Sales Details of Papers/patents : - Brief Description of working environment, expectations from the company : The working environment of the company is really good with the company being a startup you have to be ready to work at any time. With Foosball tables, PS4 and such entertainment sources in office you wouldn't want to miss the office. The team is really great who would help you out all the time. Academic courses relevant to the project : -	2019-20-sem2
Lavelle Networks , Bangalore		2018-19-sem2

Company	Experience	Year
Lavelle Networks , Bangalore	Managed and enhanced social media presence of company's profiles through various tactics and growth strategies optimizing content, design and distribution. Tool used (Development tools - H/w, S/w) : LinkedIn AD-Manager, Facebook AD-Manager, Hootsuite, Canva, Twitter Analytics Objectives of the project : Managing and Enchancing Social Media Growth of Lavelle Networks Major Learning Outcomes : Social Media Marketing, Digital Media Marketing, Copy-writing, Designing, Analytics & Data Visualization. Details of Papers/patents : Brief Description of working environment, expectations from the company : An growth stage start-up with a wonderful work environment and peers. An environment which encourages creative thinking and rewards out of box ideas. Mentors are encouraging and help in getting accustomed to work related challenges through constant feedback. Academic courses relevant to the project : Consumer Behavior, Marketing, E-business and Internet Marketing, Market Research, Creating and Leading Entrepreneurial Organization.	2018-19-sem2
Law Pundits , Trivandrum		2018-19-sem2
Law Pundits , Trivandrum	The work included mainly event management, planning and marketing. Data mining techniques were mainly used to extract data and reach out to people over email. Tool used (Development tools - H/w, S/w) : Microsoft Excel Objectives of the project : To market and organise the event. Major Learning Outcomes : Event mananement, event marketing, data mining Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : N.A	2018-19-sem2
LEA Associates , New Delhi		2018-19-sem2

Company	Experience	Year
LEA Associates , New Delhi	During my PS II tenure, I was assigned work related to my core structural engineering branch only with emphasis laid on design of minor bridges and culverts, Design of Abutments and Piers. Also as Highways have toll plaza buildings, I have assigned to design one such project, though the firm is mainly based on bridge design. Tool used (Development tools - H/w, S/w) : Staad Pro, MS-Office Objectives of the project : Design of Strucuture According to Client Satisfaction. Major Learning Outcomes : 1. In Depth design of Minor Box type Bridges. 2. Complete design of Administration building of toll plaza Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment of the firm is very great with very cooperative seniors along with various opportunities to learn new concepts in structural engineering. Academic courses relevant to the project : Design of Bridges	2018-19-sem2
Lenskart , Bangalore		2019-20-sem2

Company	Experience	Year
Lenskart , Bangalore	The project undertaken by me was to add the functionality of an Inventory Management Register on the Lenskart POS platform. The project included designing the UI for the webpage using Angular6, HTML, CSS and Java Script. We used MySQL to write queries to easily manipulate, retrieve and manage data. SOAP APIs were written to extract data based on multiple filters. The inventory was divided into many subgroups and we were expected to apply filters on all these items in order to display daily inventory counts for all stores based on date,brand,category etc. Amazon S3 storage was used to check for anomalies in real time data collected from all stores and to store daily inventory counts. Crons were scheduled to solve the problem of time difference between India and Singapore stores when handling real time inventory counts. I also worked on developing a retry mechanism to solve errors due to network issues. Tool used (Development tools - H/w, S/w) : Angular 6, MySQL, SpringSTS, Core Java, J2EE, HTML, CSS, GitLab Objectives of the project : Full Stack Web Development - The objective of the project was to add the functionality of an Inventory Management Register on the Lenskart POS platform. Major Learning Outcomes : Got an opportunity to learn and apply concepts like cron scheduling, data caching, retry mechanism, SQL queries, cloud storage etc. Learnt Frontend development using Angular 6. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Working environment at Lenskart is very employee friendly. All team members are easily approachable. Senior management provides help, guidance and mentorship whenever required. Timings are flexible and work from home/holidays are given whenever required. Academic courses relevant to the project : OOP, DSA, DBMS,	2019-20-sem2
Lightplane Technologies India Pvt. Ltd , Bangalore		2018-19-sem2

Company	Experience	Year
Lightplane Technologies India Pvt. Ltd , Bangalore	The project provided a good ground to get introduced to the fields of Machine Learning and Neural Networks. The data for the same was prepared from scratch too. Text processing of the log messages was done and useful features were extracted. Next, the RNN model architecture was decided upon (no of layers,no of nodes etc). Finally, the predictions could be made on the test data with the help of the trained model. The programming of the same was mainly done in Python. The project enabled an introduction to various important Neural Network algorithms and their workings, especially the Recurrent Neural Network (RNN) which was used in our model. The project also introduced to developing a simple Graphical User Interface (GUI) in Python and a thorough working experience with the tkinter module. Tool used (Development tools - H/w, S/w) : Python, Visual Studio Code Objectives of the project : The project focused on predicting future occurrences of errors in a system on the basis of the history of similar such events in order to give enough time to the administrator to take the necessary steps to counter the problem. Most of the existing technologies are post attack technologies and try to identify the fault after it has occurred. However, prediction of error events in advance is critical to any IT system and is the ultimate objective of this project. Major Learning Outcomes : 1. Git framework 2. Coding standards as per the industry 3. Taking care of memory leaks Details of Papers/patents : None Brief Description of working environment, expectations from the company : The working environment in the company was excellent.The mangers and mentors were very helpful.Out of their busy schedule they never hesitate to spend time for clearing our doubts and day to day work issues. Its one of the few companies which actually ensures that you gain ample amount of knowledge through this internship and makes all possible efforts from their side to make us achieve the same. Academic courses relevant to the project : Machine Learning, Neural Network	2018-19-sem2
Lowe Services India Pvt.Ltd , Bangalore		2019-20-sem2

Company	Experience	Year
Lowe Services India Pvt.Ltd , Bangalore	Worked as an intern in supply chain analytics team. Reporting and dash boarding are the 2 major fields of my work. Tool used (Development tools - H/w, S/w) : MS-excel, Microstratergy, Teradata, SQL, Python Objectives of the project : The main objective of the reporting project was to track the promotion readiness of items. Dashboard was made to understand the errors in the forecasting model. Major Learning Outcomes : Learnt about use of analytics in decision making for the retail sector . Understood the business strategies of Lowe's for the home improvement. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Fantastic place to work, great work culture. Academic courses relevant to the project : Econometrics to some extent	2019-20-sem2
Lowe Services India Pvt.Ltd , Bangalore	As a part of the Customer Insights and the Macroeconomics segment of the DACI (Data Analytics segment at Lowe's), I got to work on various dashboards they maintain for important economic parameters. My work was to automate and refine those dashboards. Secondly, I also got to work on an ARIMA forecasting model which is used by Lowe's Strategy team. Apart from major projects, I also got to work and learn about web scraping and text analytics stuff. Tool used (Development tools - H/w, S/w) : Databases - Teradata, Hadoop; Languages Python, SQL; Dashboarding tool - MicroStrategy Objectives of the project : Create more accurate python based forecasting model and to automate their dashboard data refresh process Major Learning Outcomes : In the past 6 months, I got to learn a lot of things: 1. Technical - Time series forecasting, Web scraping, Python (Pandas, NLTK and Selenium) and SQL 2. Non Technical - While working in the team, got to see how an analytics team works to create a story Details of Papers/patents : Brief Description of working environment, expectations from the company : DACI is the Analytics segment of Lowe's and it provides support to the US business. You'll get to learn about how the US home improvement retail industry works. All the teams here are good and have some very interesting projects. You'll get to meet amazing seniors who are always ready to help you. The work timings are convenient and the main focus is on the work you do. Academic courses relevant to the project : None	2019-20-sem2

Company	Experience	Year
Lowe Services India Pvt.Ltd , Bangalore	I worked on multiple projects during the course of 5 Months which included doing Web Scraping to collect data ,Using SQL to extract data from databases and using text analytics to draw reasonable inference of the raw data. Tool used (Development tools - H/w, S/w) : Python Packages(Selenium , Beautiful Soup) , SQL , Tableau , MS Excel, Hadoop , Teradata. Objectives of the project : To collect relevant inferences from raw data and thus help the company increase its sales and profit share in the US market. Major Learning Outcomes : The learning outcomes can be split into three parts : From Technical perspective I learnt python , Tableau , SQL etc. From a Business point of view how a fortune 50 company like Lowe's operates. I learned how Retail Analytics works, and various metrics etc., Details of Papers/patents : Brief Description of working environment, expectations from the company : The Environment is very friendly with everyone from the director to analyst is very approachable . All the people are very helpful and they help you unconditionally . The projects allocated are interesting and the office timings are flexible too.You also get to interact with the US counterparts during team meetings. The company only expects you to have a good attitude towards problem solving. Technical Proficiency in SQL,Excel, Python and other dashboarding tools are an added advantage. Academic courses relevant to the project : Nothing.	2019-20-sem2
Lowe Services India Pvt.Ltd , Bangalore	Brief write-up on PS-II station : The working environment was good, with all the employees very helpful. The mentoring is good. The company expects everyone to give their maximum effort. Tools used : Python and OpenCV Academic courses relevant to the project : Machine Learning, Image Processing, Neural Networks Objectives : train a convolutional network to detect and segment road objects, road obstacle detection, lane segmentation, trajectory prediction. Soft skills - presentation and writing skills.	2019-20-sem2
Market Data Forecast (Research Associate) , Hyderabad		2018-19-sem2

Company	Experience	Year
Market Data Forecast (Research Associate) , Hyderabad	I was in research team and my job was to do secondary research on market and prepare report description for the same with table of content and list of tables. Tool used (Development tools - H/w, S/w) : none Objectives of the project : Report Description Major Learning Outcomes : none Details of Papers/patents : none Brief Description of working environment, expectations from the company : none Academic courses relevant to the project : TRW	2018-19-sem2
MathWorks India Private Limited , Bangalore	Comments: Expectations from industry : Students should be equipped with skills on Artificial Intelligence, Deep Learning, Machine Learning and Data Analytics	2018-19-sem2

Company	Experience	Year
MathWorks India Private Limited , Bangalore	The goal of the project is to build a tool to perform the conformance testing of Simulink model and Code generated for the model or hand written code using simulink design verifier (SLDV) generated test cases.Use simulink design verifiers modified condition and decision coverage (MCDC) workflow to automatically generate test cases. Apart from logging the output we will be adding many observation points in the model. Identification of pain points can be achieved by logging each signal of the model and generating the simulink design verifier test case for each logged signal. After having logged the signals from the simulink model we can generate the test case for the simulink model, which returns the test cases in form of a .mat file. After having achieved the .mat file we export the test cases into the simulink test manager, which will help in executing the test case into two available modes Normal mode of simulation and SIL(software in loop) mode of simulation. Normal mode of simulation running all the generated test cases on the models as it is and software in loop mode helps to run the test cases on the C code generated by the Embedded Coder library of matlab.In SIL mode simulation, the test cases are simulated on the source code developed/auto generated for the design Simulink model and output values are recorded at the equivalent inspection points. If there is any difference between the results for both the modes of simulation then we can be sure there exists some pain points in the generated code which we need to overcome. The failed test cases can help us identify the same.The entire process is a bit lengthy process and is time consuming. Tool used (Development tools - H/w, S/w) : Matlab,Simulink,perl, Objectives of the project : The goal of the project is to build a tool to perform the conformance testing of Simulink model and Code generated for the model or hand written code using simulink design verifier (SLDV) generated test cases. Major Learning Outcomes : Software Testing,Distributed Computing Details of Papers/patents : Brief Description of working environment, expectations from the company : Awesome work environment, hoping to work on more interesting projects there. Academic courses relevant to the project : Software Testing Methodologies.	2018-19-sem2

Company	Experience	Year
MathWorks India Private Limited, Bangalore	Adaptive antenna arrays use multiple antenna elements to form directional patterns in order to improve the performance of wireless communication systems. The antenna arrays also have the ability to detect the direction of incoming signals. These two capabilities allow a smart antenna system to adaptively beam form to more efficiently communicate between nodes. The direction-of-arrival estimation is a crucial component of the smart antenna system. Historically this estimation has been accomplished using a personal computer. Implementing the estimation in the digital domain has the potential to provide a low cost and light weight solution due to recent advances in digital integrated circuit fabrication processes. Furthermore, digital circuitry allows for more sophisticated estimation algorithms to be implemented using the computational power of modern digital devices. The ultimate goal of the project was to design a model which can be implemented in a target device. My project presents the design and prototyping of direction-of-arrival (DOA) estimation for a smart antenna system first simulated on MATLAB and later a model was created using Simulink. Additionally, the developed Simulink model was redesigned from scratch to make it compatible for HDL code generation using HDL coder.	2015-16-sem2

Company	Experience	Year
MathWorks India Private Limited, Bangalore	This project aims at the modularization of Simulink Mask Editor. The current implementation of the Simulink Mask Editor is done considering all the tabs are to be used inside the Mask Editor only. However, as the software is expanding the need to modularize the Mask Editor code arises. The Simulink Mask Editor is implemented in C++, Java and MATLAB. The code for different modules of the Simulink Mask Editor is tightly coupled. The ultimate goal of the project is to make the individual modules of the Simulink Mask Editor pluggable components which could be used elsewhere in the entire software without any dependency to the Mask Editor. This presents a significant challenge as it was not designed to work in such fashion. The work included collaborating with multiple teams across the organization to test such a use case where the pluggable component would be used. It also involved development of an internal-use API so that other teams would be able to use the component easily without digging into the code. The ultimate by-product of the plug ability requirement for the individual modules resulted in a much more modular code for the Simulink Mask Editor, hence the project was titled as such. Additionally, the project required in-code documentation and maintaining an internal Wiki page to provide a central information resource / technical details / status of the project. No additional test cases were required as the already existing test cases would be sufficient to check whether the Mask Editor retains its original functionality.	2015-16-sem2
MathWorks India Private Limited, Bangalore	NextGen PMS is a corporate social responsibility and sustainability consulting company which provides a platform for reporting CSR and sustainability tasks for other companies. Currently, the company works with more than 100 companies (including Fortune 500 in 22 sectors) and manages more than USD 125 million of CSR/ development capital annually. There is no single project where we get to work. NextGen provides the opportunity to interns to work on several CSR projects at single time. My first CSR project was company's first project with non -profit organization, Art of Living. Since then, I have been working with different consulting managers of the company Basic Excel and Report Writing- for consulting profile; HTML and JavaScript- for coding profile are the basic skill sets required for implementing CSR projects. After undertaking several projects which mainly involved working on Excel, I found that the repetitive tasks on Excel like filtering, copying and pasting	2015-16-sem2

Company	Experience	Year
	can be automated by writing macros in Excel. So along with my project work, I learnt Visual Basic. I also gained experience on the p3 platform of NextGen PMS and how it can be used for reporting purposes. Along with all of this, I also learnt coding language (HTML and JavaScript) for making dashboards. After studying Chemical for entire 3 years, NextGen provided with a new experience in consultation profile. Though it was not exactly consultation which I did, my basic role was handling data for different projects like sanitation project of Art of Living. The responsibility of handling entire data and making it run successfully on dashboards, gave me immense confidence. I also learnt how to work alongside other people and learned the true meaning of teamwork and how important colleagues are in an office space. My mentor and seniors here always provided me with right amount of help, not too much but just enough to set me in a path to self—discover the solution. I have realized the importance of proper documentation, efficient team management, work delegation and follow-up, and presentation delivery to the corporates. NextGen helped me to build my persona, knowledge base and interact with industry experts. The experience here if not affect my future career prospects - has at least made me aware of the current industry standard and situation and that adds to better chances at scoring a workplace. Also, NextGen gave me the chance to explore so many fields like consulting, business development, marketing and technical field (which involved coding). To conclude, I would like to recommend this place as an option for all Engineering students who want to experience working somewhere you will feel independent and important.	

Company	Experience	Year
MathWorks India Private Limited, Bangalore	I wanted to leverage the PS 2 opportunity to gather experience in the field of consulting and NextGen, being a pioneering startup in the CSR & Sustainability space, was a right fit because: The fast-paced environment gave me enough scope to experiment and gather fresh perspective about the issues in development sector The projects I undertook gave me a lot of exposure in end-to-end program management and client-facing consulting role During this internship tenure, I worked on a total of six projects out of which two are impact assessment projects, in education and livelihood sector, which required a week-long field visit each. I was sent for the first on-field study to Betul District of Madhya Pradesh on the first weekend itself. This helped me quickly pick up skills of multi-level stakeholder management, data collection and analysis, and reporting of findings. Soon after this came another requirement for which I was stationed in Dharmapuri District of Tamil Nadu wherein I implemented the learning gathered from the previous experience. All this while, I was working in a small team with strict deadlines and interacting with the top leadership of the client team. Getting entrusted with the clientfacing role so early in this internship helped me steer dynamically and towards a better experience. Owing to this experience, my thoughts about the development sector have evolved and this firmness to the thought process reflects in discussions that I engage in. I am now able to better understand the issues that I read up about in newspapers and magazines and think through them from different dimensions. This PS 2 experience has been an important milestone in shaping my skills as well as approach to the issues in development sector.	2015-16-sem2
MathWorks India Private Limited, Bangalore	NextGen is developing a p3 platform to help companies monitor CSR activities. As part of this platform, dashboards are made using HTML, CSS, Javascript, jQuery, Bootstrap. This enables the client company CSR teams to monitor and assess the impact of CSR activities undertaken by them. The p3 platform as a product is being developed using Angular js, Node js. The skill set required for the project is hands on experience on various Web Technologies. I learned Javascript technologies from online tutorials and Mozilla Developer Network. The key learning experience was that I learned how to handle high profile project with a tight deadline. I gained hands on experience on web technologies. I learned efficient ways of business communication. Shubham Maurya (2012A4PS430P) I would like to start with a brief overview of	2015-16-sem2

Company	Experience	Year
	my work during these fruitful 6 months of Practice School -2. As a part of the Business Development Team of NextGen PMS Pvt. Ltd., I've been assigned variety of projects. Fulfilling the role a Business Analyst Intern, my projects range from the field of education to the actual field of cricket. There were field visits as well as meetings with high profile corporates in their offices. Sometime, I have to do the data crunching based on the previous team discussion sessions while at other times, I have to brainstorm with the team to come up with ideas meeting the client's demands. Moving on to the skills required for the project implementation. Basically, apart from the soft skills nothing much is expected from the interns. As a part of the project, few things will be expected from the interns, but before that, sufficient background details are also provided, which at the end of the day, help in keeping up with the pace of the projects. But it's totally on us, how we grasp it and bring it into practice. For instance, at some point of time, it will be required to work on their proprietary software and for this, proper training will be given. Directly or indirectly, the analytical and creative way of thinking comes handy in carrying projects from the planning phase to the closing phase. Apart from this, it will be better to have a hands on Microsoft Office components like, Word, Excel and PowerPoint. Almost every day, these tools occupy most of the time when it is not the brainstorming sessions. So, one may ask, how to hone these skills. The answer is, it happens in two ways. First, as an engineering student, it is quite common to have a healthy interaction with tools like MS Word and PowerPoint, and apart from that basic knowledge not much is required. Talking about the second way. Here, the PSD (Practice School Division) comes into picture. The PSD has taken great pains to prepare a small module for the interns at this station. It was a more than enough mini-course on MS Excel, which came handy in learning the crucial components that are required in few of the projects. I can say that I've learnt many things during the period of all projects. I have gained in-depth knowledge about different kinds of sectors and associated strengths and gaps. Experiences that I've gained here ranges from making field trip to small districts to having meeting with high profile corporates. The journey has so far been filled with many opportunities to learn and face, whether it is the skills for efficient team management, reporting or ways of effective work allocation. I sincerely believe that due to this hands-on experience I am now better prepared for the future and experienced gained here will	

Company	Experience	Year
	help in smoother transition from academics to the professional life. Aviral Gupta 2012A7PS160H At Opera Solutions, I have helped in delivering a critical project for the company. The project included a backend in Spring and Java and frontend was developed in JSP and JavaScript. I got to work on various new and standard technologies such as Java, Spring, JOOQ and many more. The skills required for the project were coding in Java, Spring, JavaScript and MySQL database. The basic understanding of programming and working for database in BITS Pilani was instrumental in learning these skills quickly. I was very fortunate to have mentors who helped in learning them. They also aided me in adapting to the corporate world. The experience at Opera Solutions was very helpful as I learned new technologies. By working in a critical project meant that my code would go into production, this boosted my confidence in myself and also made me responsible for my work. Practice school experience has also made me familiar with the required attitude and working conditions in the modern information technology industry. The constructive feedback of my mentors and manager has helped to learn new skills as well as refine my existing skills so that they become valuable to the industry. The experience of practice school has helped in understanding the importance of various subjects taught in the college as I was able to implement them. Thus, I believe that the practice school has helped in our transition for academics to work. I was applauded by my manager for my work as it helped him in delivering the phases of the project on time. `	
MathWorks India Private Limited, Bangalore	Comments: Expectations from industry: Mathworks: Matlab Student	2016-17-sem2

Company	Experience	Year
MathWorks India Private Limited, Bangalore	Test infrastructure system here in MathWorks consists of multiple host computers connected through a network. Also different hardwires can be connected to the infrastructure over the network to run different tests. One such hardware is the robotic toolkit Lego MindStorm EV3 which runs linux and has a powerful ARM processor. The goal of my project was to ensure single access to the hardware by designing a locking mechanism. I got an exposure to network programming (Tcp-Ip), selecting tool chain for development and cross-compilation. Also I have used C code as well as MATLAB class for the implementation. Tools used (Development tools - H/w, S/w): Matlab, Linux, gcc, EV3_IDE. Objectives of the project: Ensuring single access to Lego MindStorm EV3 by designing a locking mechanism in a test infrastructure connected over a network. Outcomes of the project: The locking mechanism which can now be extended to other hardwires. Major Learning Outcomes: I got an exposure to network programming (Tcp-Ip), selecting tool chain for development and cross-compilation. Also I have used C code as well as MATLAB class for the implementation. Brief Description of working environment, expectations from the company: Working environment is really good and supportive. You will get pointers to the right direction and also can approach anyone for help at any point of time. In this project the expectation was the implementation of the basic locking mechanism which can be modified further to account for the corner cases.	2016-17-sem2

Company	Experience	Year
MathWorks India Private Limited, Bangalore	Processor-In-Loop (PIL) is a very important functionality that is supported by MathWorks product that decreases the prototyping time and time to market, which is one of the important goals of the company. PIL functionality is supported by almost all major industrial hardwires used in prototyping and producing products that cover a wide variety of domains. The hardware list includes the boards from STMicroelectronics, Texas, NXP, etc. In a PIL simulation, the generated code runs on target hardware. The results of the PIL simulation are transferred to Simulink to verify the numerical equivalence of the simulation and the code generation results. The PIL verification process is a crucial part of the design cycle to ensure that the behavior of the deployment code matches the design. The project work includes coming up with and formulating formal guidelines that can be followed in future by all developers to test the PIL functionality. It also includes writing dedicated automated test for STM32 Nucleo boards for which there is not any automated tests existing to test the integrity of PIL functionality. Tools used (Development tools - H/w, S/w): MATLAB, Simulink, STM32 Nucleo F411RE, STM32 Nucleo F401RE and Arduino Mega ADK. Objectives of the project: Design an automated shared test for Processor-In-Loop functionality. Outcomes of the project: PIL could be automated tested for 17 new hardwires with ease.Time taken to write a PIL test for specific hardware using the shared test class is less than 2 hours as compared to the time it took earlier which was around 1-2 weeks. Major Learning Outcomes: Programming with MATLAB Classes, Unit Test Class, Build and Test (BaT) system, Processor-In-Loop functionality. Brief Description of working environment, expectations from the company: Work environment is excellent. People are very helpful and easy to approach. The environment at Mathworks promotes learning.	2016-17-sem2
MathWorks India Pvt. Ltd. , Hyderabad		2018-19-sem2
MathWorks India Pvt. Ltd. , Hyderabad	Project Work: My internship project is "BLE Mesh Friend feature" which is implemented in MATLAB using OOPS concepts. During the start of my project, I learned about Classic Bluetooth, Bluetooth Low Energy and Bluetooth Mesh. In order to maintain the low power consumption of BLE, Bluetooth mesh introduced friend feature. Then, I read about friend feature at transport layer in "Mesh Profile"	2018-19-sem2

Company	Experience	Year
	Bluetooth Specification v1.0.1. For low power nodes like temperature, humidity sensor nodes which receive data less frequently, the amount of time that they need to listen is limited by establishing friendship between low power nodes and friend nodes. Did literature survey on how to compute the energy consumption and lifetime of low power nodes in Bluetooth mesh network. The functionality of nodes with low power feature and friend feature is developed at the transport layer. The timer functionality is developed to maintain the timers for low power node and friend node. The timer functionality is integrated with the low power feature and friend feature functionality. Normal Bluetooth mesh node functionality is implemented in the transport layer in addition to low power and friend feature functionalities. In this project, the average current consumption and lifetime of Bluetooth mesh low power node is computed. Also, the average time statistics of different Bluetooth mesh nodes are compared, and it is observed that, low power node is in sleep state for most of the time which results in more lifetime of the low power node. Other Activities: Improved coding skills in MATLAB by doing Cody. Improved company needed skills by frequent interactions with the manager and mentor. Tool used (Development tools - H/w, S/w) : S/w: MATLAB Objectives of the project : Develop friend functionality to conserve the energy of Bluetooth mesh low power node like temperature, humidity sensor nodes which receive data less frequently. The energy is conserved by limiting the amount of time that the low power nodes need to listen. This can be achieved by establishing friendship between low power nodes and friend nodes. Once friendship is established, friend node stores messages that are addressed to the low power node and are delivered to the low power node when it explicitly requests the friend node. Also, friend node relays messages on behalf of low power node. Major Learning Outcomes : Learned new concept called Bluetooth mesh introduced in Bluetooth 5.0. Learned how to design friend functionality and its timers using OOPS in MATLAB. Learned about unit testing by testing the friend functionality at the transport layer and integration testing by testing the friend functionality after integration with other layers of mesh system architecture. Learned about how devices are simulated in real-time. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is peaceful and enthusiastic. As an EDG (Engineering Development Group)er, we have	

Company	Experience	Year
	chance to explore projects in various domains. Academic courses relevant to the project : Mobile and Personal Communication and Computer Networks.	
MathWorks India Pvt. Ltd. , Hyderabad	Developed a module which uses LiDAR scans to build the map of an environment and also identify the position of the UAV collecting the scans Tool used (Development tools - H/w, S/w) : Matlab Objectives of the project : To develop a LiDAR SLAM example Major Learning Outcomes : Matlab coding, exposure to Robotics system toolbox Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Very healthy work environment and supportive managers Academic courses relevant to the project : None	2018-19-sem2
Maybank Labs Pvt. Ltd. , Bangalore		2018-19-sem2
Maybank Labs Pvt. Ltd. , Bangalore	Working closely with the product owner to understand and help in sprint planning for the agile environment, take inputs from the end users after the business review and delegate it to the development team, prepare sprint end documents like functional overview, functional case study and user guide, hands on testing tools like Apache Jmeter, HP Load Runner to produce the performance testing results to the product owner, liase with the QA team for test cases, test execution. Tool used (Development tools - H/w, S/w) : HP Load Runner, Apache Jmeter, Oracle SQL developer, JIRA Objectives of the project : Provide business solutions to the Maybank end users. Major Learning Outcomes : Majorly learnt about the work culture in Agile work environment. Also had quite hands on on testing tools. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : NA	2018-19-sem2

Company	Experience	Year
Maybank Labs Pvt. Ltd. , Bangalore	I am doing project on Qualitatively Analyzing Reports of Malaysian Companies to Guage Management Stability. In this project, i applied several machine learning algorithms such as Naive's Bayes, RNN etc. I started my work from Creation of training and test data which involves data gathering, selection and labelling. Secondly, data pre-processing in which outliers and missing value treatment. Thirdly, work with feature engineering algorithms and lastly implemented model on different Machine Learning algorithms. Tool used (Development tools - H/w, S/w) : R, PYTHON Objectives of the project : To analyse the financial and companies internal reports and press releases of Malaysian companies to guage its Management stability Major Learning Outcomes : 1. Identified NLP learning 2. How to process and extract features from languages 3. Mining from pdf file 4. Trying out various traditional machine learning algorithms such as linear and logistic regression etc 5. Understanding of the business viewpoint and what all will benefit Maybank with this project 6. How this project can go live with MBB labs 7. Python as analytics Language with much more advanced packages and script writing. Details of Papers/patents : Brief Description of working environment, expectations from the company : It was a great learning experience for non-IT background students. They provide them a platform to know and explore IT world in short period of time. For CS-IT background students, it is the platform to implement their logic's of different developing languages into practical world. They equipped you with new corporate world techniques and developments. Work culture is good. Senior management is easily approachable and patiently resolve your doubts. Employee engagement activities are planned on frequent basis. Academic courses relevant to the project : Marketing Research, Product and Brand Management	2018-19-sem2
Maybank Labs Pvt. Ltd. , Bangalore		2019-20-sem2

Company	Experience	Year
Maybank Labs Pvt. Ltd. , Bangalore	Working on backend development for mobile application and web. Created Rest web services for the system using JAVA with Spring boot and hibernate/JPA, designed the database, wrote queries and PL/SQL procedures in Oracle SQL developer. Tool used (Development tools - H/w, S/w) : JAVA,Oracle SQL Developer, Spring boot,JPA Objectives of the project : Backend Development of Mobile and Web Application Major Learning Outcomes : JAVA,SQL,Spring,Hibernate,JPA,DSA Details of Papers/patents : Brief Description of working environment, expectations from the company : Agile work environment. Proper projects were assigned and monitored .Good learning experience. Academic courses relevant to the project : OOP, DSA	2019-20-sem2
Mech Mocha Internet Pvt. Ltd. , Bangalore		2019-20-sem2
Mech Mocha Internet Pvt. Ltd. , Bangalore	The work ranged from developing individual features to developing a game. Most of the games were outsourced from other companies, hence integration was the main task. Android Studio was used along with the game development softwares like Cocos Creator, Construct 2 and Construct 3. Tool used (Development tools - H/w, S/w) : Android Studio, Cocos Creator, Construct 2, Construct 3, Jenkins, Amplitude, GoLand. Objectives of the project : Game Development Major Learning Outcomes : Got to learn about Game Development. Working in a professional environment is an experience, try to cherish it. Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment was professional with proper roadmaps present for future products. The company provided proper hardware and software to carry out the work smoothly. Academic courses relevant to the project : -	2019-20-sem2

Company	Experience	Year
Media Iq Digital, Bangalore	are completed in time. They have good technical knowledge and many of them have completed the assigned tasks without seeking much help. Many students have done significant contributions to the ongoing campaigns and live projects. The qualities required in an intern include - being a good listener, team player, problem solver, innovator apart from the technical qualities. Comments: Expectations from industry: Media IQ Digital is an analytics & RnD company, founded in 2010 and headquartered at UK. The works involve collecting and processing large amount of data, modeling data to convert it into insights, and then converting them into actionable insights for a variety of products and services. This makes data valuable, helping clients engage more customers and accelerate their growth. The different departments for which students were allotted include Campaign Analytics, Tech and Business Intelligence. Basic programming knowledge and analytical skills are the prerequisites for Campaign Analytics interns. Knowledge in SQL, Excel, big data techniques and ability to adapt to new platforms/tools is an added advantage for the other two streams of work. Other requirements included being a quick learner, innovator, team player and problem solver. It is suggested that the students should connect with their peers/seniors who have completed the PS-II program at their allotted stations previously to know about the kind of work and the industry expectations. The quest to learn new things and to see things learnt in classes work in practice is a key motivating factor for better contribution towards the projects. Student	2016-17-sem2
Media Iq Digital, Bangalore	Company handles data to predict the buying pattern of customers. My work was to arrange the data in presentable manner using tableau and other tools and handle the backend data which is used in making dashboards. Tools used (Development tools - H/w, S/w): Tableau, SQL workbench, S3 browser. Objectives of the project: Create Dashboards for company and clients. Outcomes of the project: Made various dashboards. Major Learning Outcomes: Learnt a lot about Database management. Brief Description of working environment, expectations from the company: Friendly environment with professional people. A lot to learn from their experience.	2016-17-sem2

Company	Experience	Year
Media Iq Digital, Bangalore	Running campaigns for various companies as part of digital media advertising. Campaign optimization based on various target strategies and creation of insight reports comprises the major work. Tools used (Development tools - H/w, S/w): Appnexus, Google Double click bid manager, SRS, DPI manager. Objectives of the project: Running digital advertising campaigns for various companies effectively and efficiently to bring out best benefits and profits. Scope is limited to digital media advertising (web serving) and is limited to high income countries where it is more expected to get webpage conversions from economically potential population. Outcomes of the project: Campaign profits. Major Learning Outcomes: Working of Analytics tools. Brief Description of working environment, expectations from the company: Working environment is good, friendly people around.	2016-17-sem2
Media Iq Digital, Bangalore	I worked in BI team. My work was mainly on Standard Reporting System (SRS) user interface. Tools used (Development tools - H/w, S/w): HIVE, SQL and GIT. Objectives of the project: Project was mainly to decrease efforts of analysts and traders. Make their work easier. Outcomes of the project: I have added twelve new reports to SRS UI and some new dimensions, metrics, primary and secondary filters to SRS. Major Learning Outcomes: I learnt HIVE, SQL, GIT and basics of digital marketing. Brief Description of working environment, expectations from the company: Working environment is good in Media IQ. Company is growing so there are chances to learn new things, software and techniques.	2016-17-sem2
Media Iq Digital, Bangalore	Major focus was on development operations related to handling requests from clients or data scientists in enterprise team. Tools used (Development tools - H/w, S/w): Jenkins (shell scripting), AWS, SQL, Postman, Eclipse (java) Objectives of the project: Client related tasks similar to job. No project as such. Major Learning Outcomes: Gained good knowledge of Shell bash, java, SQL, cloud computing, linux environment as well as enterprise side of the company. Brief Description of working environment, expectations from the company: Chilled out environment, flexible working hours, friendly and qualified people, no cubicles, library, foosball etc. will surely be a good learning experience in either tech, BI or analyst (mine was tech).	2016-17-sem2

Company	Experience	Year
Media Iq Digital, Bangalore	Worked on Big data analysis. Tools used (Development tools - H/w, S/w): HIVE, HADOOP, and MS EXCEL. Objectives of the project: To generate insights from data. Outcomes of the project: prepared automated insight reports after analysis. Major Learning Outcomes: Technologies-hive, sql , MS excel, Hadoop. Brief Description of working environment, expectations from the company: good Company with Li8e work.	2016-17-sem2
Media Iq Digital, Bangalore	This is a digital advertising firm. The work was mostly related to data analytics. I worked with Europe campaign analysis team. I worked on targetingaudiences and digital advertising campaigns. Primarily, the focus was on optimizing campaigns and pre/mid /post campaign Insight Reports in addition to weekly insights. Tools used (Development tools - H/w, S/w): Software tools - Excel, Sql, R, and PowerPoint Objectives of the project: The work was dynamic. The objective of every advertising campaign was to optimise the key performance parameters and produce valuable insights Outcomes of the project: Successfully completed various insights, optimized advertising campaigns, attended to sales requests, learnt Sql, basics of R and advanced functions in Ms Excel Major Learning Outcomes: Learnt about working of digital advertising industry, business models, learnt Sql, basics of R and advanced functions in Ms Excel Brief Description of working environment, expectations from the company: The work culture was good, team is young and supportive. Work is hectic since it's a start up but lot of opportunities to learn	2016-17-sem2

Company	Experience	Year
Media Iq Digital, Bangalore	Worked for the enterprise team and on the products build and used by media IQ team. Mostly data source integration using Java, Vertex, REST, React and Amazon web services like S3 and resift. Tools used (Development tools - H/w, S/w): Java, Reshift, S3, Vertex, REST, SQL, React, and Bash Objectives of the project: Data gathering (from clients, Facebook, Google, instagram, LinkedIn etc), integration and processing for BI team to draw insights and for analysis. Outcomes of the project: Data processed by our team is used by BI and analysts teams for their analysis. Major Learning Outcomes: Worked on various technologies so got to learn about them along with the industrial experience. Brief Description of working environment, expectations from the company: Working environment is pretty decent and time is given to learn at your own pace. Not much work pressure but definitely a place to learn a lot. Work from home is available along with free food and cab at very nominal rates. Overall an excellent place to work.	2016-17-sem2
Media Iq Digital, Bangalore	I worked with the Business Intelligence team where I developed interactive Dashboards reports insights from the campaigns run. I worked on both the internal BI tool and tableau to develop these dashboards which were used by analysts to optimise their future campaigns accordingly. Tools used (Development tools - H/w, S/w): SQL workbench, Tableau, Internal BI tool of Media IQ. Objectives of the project: To create interactive Dashboards. Outcomes of the project: Interactive Dashboards to optimise campaign stratergies. Major Learning Outcomes: Ability to model huge data and make useful insights out of it. Brief Description of working environment, expectations from the company: Media IQ Digital has a very good work culture. Everyone in the company is focused enough to reach their respective targets. Everyone is very approachable and helpful. The company as a whole has a very young and vibrant aura about it. It is a good company to kick start your career if interested in data analytics.	2016-17-sem2

Company	Experience	Year
Media Iq Digital, Bangalore	The work was in digital adversiment analytics. There were two major tasks 1- campaign Optimization 2- Insight reports Campaign Optimization was optimizing the campaigns to meet the client ROI and to churn out max margins. Insight reports was to build a story from the user data we collect so as to find the major findings to be present to the client. Tools used (Development tools - H/w, S/w): MS Excel SQL Hive PowerPoint R (not much used) Internal Tools (MiQ). Objectives of the project: Campaign Optimization. Outcomes of the project: Several Campaigns were optimized to meet the clients RIO, and intern the margin was maximized. Major Learning Outcomes: Analytical Thinking, tools used in analytics, soft skills. Brief Description of working environment, expectations from the company: The work culture is similar to a start up. Teams generally begin the days at around 10:30 am and a normal day ends at around 77:30 pm. At MiQ we work on live projects from the very beginning. The training period lasted around 10 days. Which included sessions on business context, Excel, PowerPoint and Sql . In a period of 6 months you can expect to learn basics of analytics. The company does provide free breakfast and lunch. Also they do provide cab service on minimal charges.	2016-17-sem2
Media Iq Digital, Bangalore	My project involved sales forecasting for the American operations of an FMCG company. It required monthly forecasting based on inputs such as ACV, PPD, Seasonality, Cannibalization, Market Growth etc collected from the Regional Sales Managers. Price forecasting was also done based on inputs from Regional Sales Managers for various strategies such as EDLP, Fixed, Hi-Low etc. Tools used (Development tools - H/w, S/w): Primarily Excel and VBA were used for the entire process. We later shifted to R as some parts of the project needed to be revamped. Objectives of the project: Monthly Sales Forecasting of FMCGs. Outcomes of the project: Monthly Sales Forecasting of FMCGs. Major Learning Outcomes: Proficiency in Excel, VBA and R. Brief but insightful glimpse into the world of data analytics. Brief Description of working environment, expectations from the company: Its a rapidly growing startup, so there are nearly 80-100 employees. One can quickly learn the various tools associated with the project such as Excel or SQL. From the first day, they treat you as an employee. So you get assigned a project quickly and soon shoulder the responsibility of deliverables. The work hours are long and you may need to work on some weekends.	2016-17-sem2

Company	Experience	Year
MediaTek Bangalore Pvt. Ltd. , Bangalore	Comments: Expectations from industry : The students are working in various VLSI and communication projects like peak detection and power estimation on I/Q data, receiver impairments estimation in MIMO systems, Fuel Gauge Algorithm Development in Li-Ion Batteries, Analysis on 2G logs, convert RTL design into netlist, design verification etc. Students are using Labview, verilog, VHDl and scripting languages like tcl, python , PLA tool, in their projects. The students can refresh their basics and learn basics of scirpting languages before they come for PS 2	2018-19-sem2
MediaTek Bangalore Pvt. Ltd. , Bangalore	During PS-II the synthesis flow of VLSI design flow has been explored and logic synthesis has been performed on a module. The purpose of doing synthesis is to convert the RTL code of module to technology dependent optimized netlist, it minimizes the slack to meet the timing performance and also, it minimizes area and leakage power. In this project, synthesis of a module has been performed using Synopsys Design Compiler. After applying appropriate constraints on a module, slack has been minimized to 0ns from 1.586ns and leakage power has been minimized to 1.652μW. Also, the other part of work includes clock domain crossing (CDC) check which has been performed on chip top level using Questa CDC tool. The intention of performing CDC check on chip top level is to make sure that the data exchange between different clock domains is smooth and functionally correct. After applying appropriate synchronizers the infer clock violations has been reduced to zero from 2k and CDC violation has been reduced to 5k from 75 million. Tool used (Development tools - H/w, S/w) : For Synthesis- Design Compiler of Synopsys, For CDC Check- Questa of Mentor graphics Objectives of the project : To perform synthesis to convert RTL design (Synthesizable HDL code) into optimized technology dependent netlist and to check clock domain crossing (CDC) on chip to make sure different clock domains are synchronized for proper functioning of chip. Major Learning Outcomes : Synthesis is an important step of ASIC design flow as it convert the RTL code to technology mapped netlist and also optimize the design using the optimization variables. Synthesis has been performed for a module and results has been observed and analyzed. Also, it has been observed that slack can be minimized to zero by using appropriate combination of optimization variables. CDC is an important check for any design which makes sure that data exchange between different asynchronous modules is smooth and correct. CDC	2018-19-sem2

Company	Experience	Year
	convergence depends on understanding of the violations and what type of synchronization technique should be used for particular violations. It is observed that CDC violations and infer clock violations can be minimized to zero if proper design waivers (synchronization techniques) used to solve the violations. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment was upto the level of industry. i expected to work on live project and company help me to provide live project. Academic courses relevant to the project : VLSI Design and Advance VLSI Design	
MediaTek Bangalore Pvt. Ltd. , Bangalore	Vcf checks, coverage and regression for test chip Tool used (Development tools - H/w, S/w) : Synopsis Verdi Objectives of the project : To verify the test chip Major Learning Outcomes : Verification flow for a test chip Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Mel g626	2018-19-sem2
Mentor Graphics , Bangalore	Brief write-up on PS-II station : Mentor Graphics Tool used - OpenCV - C++ Course - Digital Image Processing Changes - DIP is taught on MATLAB. Instead of using Matlab, OpenCV with Python/C++ can be used.	2019-20-sem2
Mentor Graphics , Bangalore	Design to Image contour conversion. Fancy name for drawing lines using OpenCV Tool used (Development tools - H/w, S/w) : OpenCV - C++ Objectives of the project : The project was aimed at retrieving Manhattan layouts from SEM images of fabricated chips using image processing techniques. Major Learning Outcomes : If STL counts as learning. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : The people here are very nice, you get free food and all. However, they'll mostly give you IT related work and not core. Academic courses relevant to the project : DIP	2019-20-sem2
Mercedes Benz , Bangalore		2018-19-sem2
Mercedes Benz , Bangalore	#ERROR!	2018-19-sem2

Company	Experience	Year
Mercedes Benz , Bangalore	1. Implemented Machine Learning Algorithms to predict Belt Drive dynamics, such as pulley Hub-load variation with speed, Tensioner arm movement, slip-stick behavior of belt and belt tensions. 2. Modelled advanced hydraulic tensioner using Machine Learning algorithm to identify input parameters of tensioner using test bench lever acceleration data. Tool used (Development tools - H/w, S/w) : Matlab, Msc Adams, Motion-solve Objectives of the project : Machine learning approach for parametric optimization of hydraulic tensioner model for enhanced correlation with test data. Major Learning Outcomes : Machine Learning Details of Papers/patents : 1. A machine learning approach for parameter optimisation in dynamic belt drive applications.(Under Review, SAE) 2. Mathematical Modelling Park lock Mechanism.(Under Review, SAE) Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Finite element Analysis	2018-19-sem2
Mercedes Benz , Bangalore	A vehicle cabin with a panoramic roof was simulated in STAR-CCM+, to understand the flow behaviour inside the cabin, and to understand the dependency of the flow on the opening motion of the roof. Tool used (Development tools - H/w, S/w) : STAR-CCM+ Objectives of the project : Studying flow infiltration in a vehicle cabin through sliding roof. Major Learning Outcomes : Aerodynamics, Computational Fluid Dynamics Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Academic courses relevant to the project : CFD, Fluid Dynamics	2018-19-sem2
Mercedes Benz , Bangalore	Numerical simulation of nucleate subcooled flow boiling using two correlations along with validation and application to engine cooling jacket Tool used (Development tools - H/w, S/w) : Star-CCM+ Objectives of the project : The main aim is to accurately predict the presence of boiling in engine cooling jacket Major Learning Outcomes : Application of CFD in automobile industry Details of Papers/patents : Brief Description of working environment, expectations from the company : Everyone in the company is quite supportive and helpful from the very beginning Academic courses relevant to the project : Computational Fluid Dynamics	2018-19-sem2
Mercedes Benz , Bangalore		2019-20-sem2

Company	Experience	Year
Mercedes Benz , Bangalore	Method Development, Durability Analysis, Simulations and Finding better alternates to existing designs. Design of Experiments Tool used (Development tools - H/w, S/w) : NASTRAN, ABAQUS, HYPERMESH, ANSA, HYPERVIEW Objectives of the project : Finding viable and feasible design for Running Board Major Learning Outcomes : Creative Thinking, Problem Solving and various softwares used in core fields Details of Papers/patents : Brief Description of working environment, expectations from the company : Good working environment. Work focused. Good amount of work is given. 9+ official working hours. PPO scenes very tough though. Academic courses relevant to the project : CAD/CAE	2019-20-sem2

Company	Experience	Year
Mercedes Benz , Bangalore	Topic: Random Vibration Fatigue Analysis on Motor Casing. The electric motor is used in E-Drive applications. Fatigue is an import factor based on which warranty and time to service cars are decided. Random vibrations is a load that usually designers don't pay enough attention to, and the source of such vibration is due to the road profile and other external factors. In this study, we aim to perform a frequency analysis to identify the problematic eigenvalues and also perform a fatigue analysis to calculate damage and life cycle of the motor casing. Tool used (Development tools - H/w, S/w) : HyperMesh, OptiStruct Objectives of the project : Identify the stress concentration areas and observe the effect of random vibration fatigue on the component as a whole Major Learning Outcomes : Learnt about fatigue loading and mathematics used in FEA tools for solving such problems. Also gained insight on current E-Drive research being performed in MBRDI. Details of Papers/patents : None Brief Description of working environment, expectations from the company : My department (RD I/CCD, Powertrain Division) had several teams under the umbrella. Although I didn't have the opportunity to interact with all, my colleagues were welcoming and ready to help me in any situation. My mentor was available in all times of crisis and directed me toward the solution at the end of the day. Although 9+ hours of timing was officially mentioned, my manager was not specific about it, so I really had to stay only until I had work. Timings are flexible too, although I came early and left early. Outside work, I had several trips with my colleagues, to nearby tourist attraction. We also played football every week, and I also participated in an inter-department tournament in the time I spent here. Academic courses relevant to the project : Automotive Technology, Electromagnetic Theory, Finite Element Analysis (FEM), Mechanical Vibrations, Mechanics of Solids	2019-20-sem2
MiQ Digital India Pvt. Ltd. , Bangalore		2018-19-sem2

Company	Experience	Year
MiQ Digital India Pvt. Ltd. , Bangalore	MIQ is a Digital Advertising and Marketing company. I am working as a data analyst. Analyzing Data of various clients and generating proactive insights out of it is a part of my regular work. Tool used (Development tools - H/w, S/w) : Hive , R/Python , Tableau, Excel and Powerpoint Objectives of the project : Majorly you will deal with day to day clients requests. Automation projects in R and Tableau Dashboard will also be a part of your work Major Learning Outcomes : Analyzing and Managing big data for various clients and getting proficient in tools like Hive , R , Excel and Tableau Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is so nice. People here are really good and helpful. Company knows how to take care of your client really well Academic courses relevant to the project : C programming, Probability and Statistics and DBMS	2018-19-sem2
MiQ Digital India Pvt. Ltd. , Bangalore	Helped 50+ US clients in managing and optimizing their marketing strategies to improve customer conversions via data analysis. Used R programming language to onboard two new data sources in the company's possession in order to gather better insights for later targeting strategies. Learnt about business strategies and how to implement them in a real environment. Tool used (Development tools - H/w, S/w) : Softwares for analysis like SQL, R, Tableau, HIVE, Redshift, MS Excel. Objectives of the project : Consulting various clients using data analysis for potential business strategies to optimize their marketing and increase conversions. Also, developing new data resources for the company to enhance the analysis abilities. Major Learning Outcomes : Learnt a lot of softwares - general and company specific. Helped in onboarding two data resources on the company's platform. Learnt a great deal on corporate culture and hierarchy in the office. Understood the importance of accountability and many other soft skills. Details of Papers/patents : Onboarded Twitter and Zillow data on the MiQ's analytics platform. Brief Description of working environment, expectations from the company : Great place to work. Colleagues are of the same age group, hence easier to communicate and do understand you well. Happy work environment and flexible timings. Meals were also served 3 times a day. A lot of learning opportunities in terms of analytics and gained a good understanding of business strategies. Academic courses relevant to the project : Database Systems	2018-19-sem2

Company	Experience	Year
MiQ Digital India Pvt. Ltd. , Bangalore		2019-20-sem2
MiQ Digital India Pvt. Ltd. , Bangalore	Working environment here basically deals with Improvement in the productivity and efficiency of the products and client relationship with the company. Understanding Big Data and using data analytics to provide advertising insights to the client (advertiser or agency) for business and advertising strategies.Improving or developing new tools to ease data management and enhance automation for easier insights generation for MiQ as well as its clients. Tool used (Development tools - H/w, S/w) : Qubole, Amazon Redshift, Tableau, Jarvis, Hive, Spark, SQL, R Studios, Objectives of the project : The objective of my project was to use tools like Hive , R , Tableau and Jenkins and fulfil clients requests on a daily basis as well as built automated tools for business ease Major Learning Outcomes : 1) Gaining knowledge of Ad Campaigns 2) Learning Big Data Processing tools like Hive , Sql and Apache Pyspark ,R and Python 3) Visualization tools Tableau 4) Machine Learning and Statistics concepts like Text analysis in deep learning and K means in Unsup Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment in MiQ is very comfortable and employee friendly. People are always motivated to complete their work before the deadlines. Work load on a daily level depends on the team/pod you're working in. Everyone is always ready to help in whichever way possible. Also many people are usually working on different projects, so if at all anyone gets a chance to work on them, they can learn a lot from it. Academic courses relevant to the project : Basics of SQL, R, Python is a plus	2019-20-sem2

Company	Experience	Year
MiQ Digital India Pvt. Ltd. , Bangalore	Took up various analytics projects for major clients and made a custom reporting solution for video ad campaigns using R programming. Tool used (Development tools - H/w, S/w) : Redshift, SQL, Tableau, R, Python, Qubole (Hive), Excel Objectives of the project : To automate frequently requested reports. Major Learning Outcomes : Learnt basics of analytics and programming and Tableau. Details of Papers/patents : Nil Brief Description of working environment, expectations from the company : Excellent working and learning environment. Company expectations are fine and manageable. Good work life balance. Academic courses relevant to the project : Machine Learning, Data Mining, DBMS, DSA	2019-20-sem2
Mol De Analytics, Hyderabad	Creating four different WebPages which are incorporatedinto a app Tools used (Development tools - H/w, S/w): Angularjs, node.js, plunk. Objectives of the project: Creating webpage for app. Outcomes of the project: Creating webpage for app. Major Learning Outcomes: Html, css and javascript. Brief Description of working environment, expectations from the company: Good working environment, PPO chances are less.	2016-17-sem2
Mol De Analytics, Hyderabad	Web development (both front-end and back-end). Tools used (Development tools - H/w, S/w): AngularJS, Node.JS. Objectives of the project: Startup (so can't declare). Outcomes of the project: can't declare. Major Learning Outcomes: Full stack web development. Brief Description of working environment, expectations from the company: Decent working environment with all the tools provided and regular food. The expectations are not much since i don't need a PPO.	2016-17-sem2
Mol De Analytics, Hyderabad	Front end web development. Tools used (Development tools - H/w, S/w): Angular JS, HTML, and CSS. Objectives of the project: Create web pages for their new product. Outcomes of the project: New WebPages with front end design as specified. Major Learning Outcomes: Got to work with front end development technologies like Angular JS. Brief Description of working environment, expectations from the company: No work pressure. No real work as such. Not a challenging environment. The scenario might change next semester or the PS program might be cancelled also as they don't have any need for interns.	2016-17-sem2
Mordor Intelligence, Hyderabad	1.Design, develop and maintain the recruitment process in the organization. 2. Identify sources and channels of recruitment (Internal Referrals and External pitch on LinkedIn, opportunity) 3.Define and streamline recruitment	2016-17-sem2

Company	Experience	Year
	process based on designation (HR, Marketing Associate, and Research Profiles). 4. Collaborate with third party Job portals, Pitch colleges across India for different domains/verticals.5.Collaborate with HR consultants for recruiting senior resources.6.Analyze the current performance appraisal process and define new metrics 7.Interact with team leads to identify and segregate Associate, Analyst, Senior Analyst and team activities (To assist in identifying employee hierarchy) 8.Assist in new employee on-boarding, payroll process and pay scale negotiations. 9. Define Time sheet policy, Automate attendance management, and collaborate with third party software to automate payroll process and basic HR. Objectives of the project: HRM and Automations Outcomes of the project: Streamline and automate HR activities Major Learning Outcomes: 1.Design, develop and maintain the recruitment process in the organization. 2.Identify sources and channels of recruitment (Internal Referrals and External pitch on LinkedIn, opportunity)3.Define and streamline recruitment process based on designation (HR, Marketing Associate, and Research Profiles).4.Collaborate with third party Job portals, Pitch colleges across India for different domains/verticals.5.Collaborate with HR consultants for recruiting senior resources.6.Analyze the current performance appraisal process and define new metrics 7.Interact with team leads to identify and segregate Associate, Analyst, Senior Analyst and team activities (To assist in identifying employee hierarchy) 8.Assist in new employee on-boarding, payroll process and pay scale negotiations. 9. Define Time sheet policy, Automate attendance management, collaborate with third party software to automate payroll process and basic HR. Brief Description of working environment, expectations from the company: Mordor Intelligence LLP is a market research and consulting firm with expertise in accurate research and analysis. Mordor Intelligence generates more than 9000 comprehensive reports annually across 60+ industry segments and are trusted by 300+ brands across the globe - Schneider, Texas Instruments, Nokia, Hitachi too name a few. The industry segments in which Mordor Intelligence researches and provides consulting include Agriculture, Feed, Automotive, Aerospace and Defense (FAAD), Chemicals & materials (CNM), Energy & Power, Food & Beverages (FNB), Healthcare and Information and Communication Technology (ICT). Mordor Intelligence serves clients across US, UK and	

Company	Experience	Year
	Asia Pacific. Work culture: Young talent, open to ideas & discussions Expectations: To let the general management interns (BITS MBA) explore domains other than HR such as consulting, research, business development and digital marketing.	
Mordor Intelligence, Hyderabad	Prepared market research reports and report samples as required by the department. Conducted secondary and primary research in the process of preparing reports. Tools used (Development tools - H/w, S/w): MS excel. Objectives of the project: To write report samples, company profiles for custom reports, modify data sheets and prepare write up segments of reports. Outcomes of the project: Completed all given targets. Major Learning Outcomes: Learnt how to conduct secondary and primary research. Brief Description of working environment, expectations from the company: Working environment is very friendly and encouraging. It is very easy to get assistance in any aspect. All levels of employees are very approachable. Expectations from the company are basic and as per trainee's competence.	2016-17-sem2
Mordor Intelligence, Hyderabad	Taking interviews, negotiating compensation expectations, End-to-end recruitment, On boarding, Induction of new joinees. Objectives of the project: To assist the mentor in taking the now 150-employee organisation to 300 employee organisation. Outcomes of the project: Helped the organisation hire 20 full time employees Major Learning Outcomes: Spontaneity, Handling interviews, Compensation Negotiations Brief Description of working environment, expectations from the company: The organisation is a flat and flexible organisation. Being here was quite a pleasant working and learning experience.	2016-17-sem2
Mordor Intelligence, Hyderabad	Contributing to samples and reports by searching information over internet. The work does not require much of intelligence. Tools used (Development tools - H/w, S/w): MS Word, Excel, and PowerPoint. Objectives of the project: To make reports and samples. Outcomes of the project: Reports and samples. Major Learning Outcomes: Learning outcomes are close to nil. Most of the projects involve google search as a primary exercise which does not contribute to existing knowledge base. Brief Description of working environment, expectations from the company: Work environment is good. Timings are flexible. No dress code.	2016-17-sem2

Company	Experience	Year
Mordor Intelligence, Hyderabad	My project was mainly based on analytics in terms of market research. I helped the company in preparing reports by assisting in the research analysis and final compilation part. Objectives of the project: Market Research and Analysis. Outcomes of the project: A compiled market report for the client base. Major Learning Outcomes: Word, Excel and Analytical Skills. Brief Description of working environment, expectations from the company: The stint in the company has in its own way helped to increase my analytical skills and also opened a new door to the corporate world. On top of this the company has helped to improve my verbal ability by providing opportunity to take on international client calls as a part of primary research done for the completion of the report. Other gripping insights to corporate life were shared for our future.	2016-17-sem2
Mordor Intelligence, Hyderabad	The work done in Mordor intelligence is Market Research. We need to make various reports on different markets. The reports are sometimes custom made for the requirement of the clients. The main objective of the report is to give the required Market definition, Market overview, Market dynamics which includes the drivers, restraints, and opportunities, Market segmentation which is based on the product type (By type and by function), application type, the company profiles of the major industry players, and the competitive landscape. The research is done on the market by analyzing the information using various methods. Methods such as analyzing the production, consumption data, import export data, and in some cases, the no of products for a particular category can also be used to find the market share.Market segmentation which is based on the product type (By type and by function), application type, the company profiles of the major industry players, and the competitive landscape. This is done using the market share analysis. Tools used (Development tools - H/w, S/w): Tools used are MS Excel, MS Word, Google Chrome, Data base websites like FAO Stat, Statista, and Factiva. Objectives of the project: The main objective of this project is to find out the market insights from Secondary and Primary Research. The scope of the project is to give the required Market definition, Market overview, Market dynamics which includes the drivers, restraints, and opportunities, Market segmentation which is based on the product type (By type and by function), application type, the company profiles of the major industry players, and the competitive landscape. The report includes	2016-17-sem2

Company	Experience	Year
	the data analysis and deduction of the respective areas of interest and also the qualitative analysis. Outcomes of the project: The outcome of the project is the report which consists of full detailed information on a particular market. The report contains Market definition, Market overview, Market dynamics which includes the drivers, restraints, and opportunities, Market segmentation which is based on the product type (By type and by function), application type, the company profiles of the major industry players, and the competitive landscape. The report includes the data analysis and deduction of the respective areas of interest and also the qualitative analysis. Major Learning Outcomes: The learning outcomes are I learned to use excels to analyse the data. Search for market related information over the internet and interpret it to find the relevant information. Write information on various segments of the report by analyzing it. Brief Description of working environment, expectations from the company: The working environment is really good. People in the office are very friendly and helpful. There is no restriction on dress codes and office timings are flexible. The company expects the students to have good writing and analytical skills. The students should be good in using excel, word and browsing internet.	
Mordor Intelligence, Hyderabad	Market research and analysis, secondary research, primary research. Prepared company profiles as a part of report writing process. Tools used (Development tools - H/w, S/w): Ms excel. Objectives of the project: To prepare company profiles of syndicated reports via secondary and primary research. Outcomes of the project: Prepared samples for various reports, company 'profiles and various other tasks as per requirement. Major Learning Outcomes: Learnt how to prepare and research for market research reports, how to perform secondary and primary research. Brief Description of working environment, expectations from the company: Working environment is very friendly, employees andmentors are easily approachable and eager to help.	2016-17-sem2
Morgan Stanley Advantage Services , Bangalore	Student	2018-19-sem2

Company	Experience	Year
Morgan Stanley Advantage Services , Bangalore	Re-engineered the existing banking platform by parallelizing many things such as various business tasks, stored procedures; removing interdependencies between different things; rewriting a few parts of the code. Tool used (Development tools - H/w, S/w) : Java 8, Spring, DB2, Testing tools - JUnit, Concordions Objectives of the project : Reengineering the existing banking platform to achieve efficiency. Major Learning Outcomes : Understood the business-part of the work, ~80% code-coverage, learned the above-mentioned tools. Details of Papers/patents : Brief Description of working environment, expectations from the company : Good working environment, my Manager was very helpful and supportive, cafeteria food is okay, no hardtimings (depends upon your team). Academic courses relevant to the project : Object-Oriented Programming, Database Management Systems, Data Structures and Algorithms	2018-19-sem2

Company	Experience	Year
Morgan Stanley Advantage Services , Bangalore	• Understand the existing system and concept of email bounces. • Understand the existing design of email bounce tracking. • Came up with new plan on how to integrate the Akka actors to achieve similar functionality. • The new component follows a parallel approach of processing bounced mail rather than existing sequential approach. • Developing the component using the Scala/ Akka tech stack. Tool used (Development tools - H/w, S/w) : Scala/Akka, C#, Spring Objectives of the project : • Consolidating application tech stack into Scala/ Akka platform which is both more current as well as core stack used by my team and move away from DotNet. • Migration of application to Scala/ Akka tech stack helps mitigate the risk due to minimum available support for DotNet application within the team. Major Learning Outcomes : I have designed the basic skeleton structure of my project, completed various classes and continue to work on small components one-by-one. My time here so far has given me valuable experience as a programmer and I am excited to see what else is in store for me down the line. I have enjoyed being immersed in a professional software development and plan to use the remainder of my time to learn and take away many valuable lessons that will serve me in my future career. Regular scrum calls to keep track of the updates help me complete my project in a time bounded and sequential manner. Task completed on each day were accounted in the JIRAS. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Principles of Programming Language, Data Structures and Algorithms, Object Oriented Programming, Database Systems	2018-19-sem2
Morning Star - Index New Product Development , Mumbai	Student	2019-20-sem2

Company	Experience	Year
Morning Star - Index New Product Development , Mumbai	Worked on several APIs and services on AWS using various components like s3, dynamoDB, SQS, Athena, ECS, etc. Tool used (Development tools - H/w, S/w) : Java, AWS, Springboot, Python, Junit5 Objectives of the project : To develop applications for internal clients Major Learning Outcomes : Cloud technologies, App development Details of Papers/patents : Brief Description of working environment, expectations from the company : Work environment is great, flexible timings. Agile development is followed. Academic courses relevant to the project : C, OOP, DSA(not mandatory)	2019-20-sem2
Morning Star - Index Operations , Mumbai	Student	2019-20-sem2
Morning Star - Index Operations , Mumbai	I worked on building indexes using SQL and Python. It is basically portfolio creation and weighting using Python by applying various filters on the initial universe of stocks like liquidity or marketcap and then selecting the top stocks and weighting them by float market cap or unique weighting. These are the kind of portfolios that we know as Sensex 30. We use SQL for getting the data and then build and backtest our portfolios using Python. Tool used (Development tools - H/w, S/w) : Python, SQL, Excel Objectives of the project : The objective was to build an index Major Learning Outcomes : Index construction/Portfolio Construction, quant finance introduction, rules based portfolio creation, querying data and working with it Details of Papers/patents : Brief Description of working environment, expectations from the company : Good environment, friendly and helpful people, good work culture Academic courses relevant to the project : Derivatives and Risk Management, Computer Programming, Probability and Statistics, Optimisation, SAPM	2019-20-sem2

Company	Experience	Year
Morning Star - Index Operations , Mumbai	I worked in New Product Development, Indexes. I initially worked on calculating float values by combing through annual reports. Then I worked on building a thematic index using python and sql. I built a monitoring system in sql for giving weekly updates on the condition of the databases and wrote scripts to streamline their data handling process. Tool used (Development tools - H/w, S/w) : Python, sql, excel Objectives of the project : To build an economically viable index with good return/risk profile Major Learning Outcomes : I learnt a lot about the Indexing businesses and building indexes. Brushed up sql and python skills. Learnt soft skills and handling expectations of people around you. Details of Papers/patents : Brief Description of working environment, expectations from the company : They expect you to be interested and fast at picking up things. Work environment is nice. People are helpful. Academic courses relevant to the project : SAPM, Computer Programming, Derivatives and Risk Management, Probability and Statistics	2019-20-sem2
Morningstar - Index Technology , Mumbai		2018-19-sem2
Morningstar - Index Technology , Mumbai	Worked within the Indexes technology team worked in SQL to improving the performance of the codes , Analyzed the hardcoded password to improve the security of the system, worked in the maintenance of corporate website. Tool used (Development tools - H/w, S/w) : SQL , R , C# Objectives of the project : To provide technological support to the required teams Major Learning Outcomes : Learnt working with the AGILE methodology , writing and optimizing sql queries , GIT control Details of Papers/patents : Brief Description of working environment, expectations from the company : The Company has a very friendly environment . The work timings are flexibe. Academic courses relevant to the project :	2018-19-sem2
Morningstar - Index Technology , Mumbai	Student	2019-20-sem2

Company	Experience	Year
Morningstar - Index Technology , Mumbai	Finance, Client presentation, Competitor mapping, Automation Tool used (Development tools - H/w, S/w) : VBA, Excel,SQL Objectives of the project : Automation Major Learning Outcomes : Finance and coding Details of Papers/patents : - Brief Description of working environment, expectations from the company : Vey good, friendly Academic courses relevant to the project : BAV, FM	2019-20-sem2
MSCI (NPD - Index Research) , Mumbai		2018-19-sem2
MSCI (NPD - Index Research) , Mumbai	Developed assemblies to re-balance MSCI ESG, Climate Change, Consumer Alpha Indexes with an aggregate of over $150 billion asset allocation globally. • Automated the process of Sustainable impact creation, Turnover profile generation and screening parameter creation forindex rebalancers. • Designed and tested customized RACs for Thematic Indexes Tool used (Development tools - H/w, S/w) : Matlab, Python, Excel. Objectives of the project : Gain experience in the index space, learn Python. Part of several new index launches. Major Learning Outcomes : Index Calculation and Rebalancing. Creating New Indexes and understanding Benchmark applications. Automation using MATLAB. Details of Papers/patents : Brief Description of working environment, expectations from the company : You will get a lot to learn if you are pro active. Team is highly experienced and helpful. Academic courses relevant to the project : Security Analysis and Portfolio Management (just 10% is relevant)	2018-19-sem2
MSCI Technology & Development , Mumbai		2018-19-sem2

Company	Experience	Year
MSCI Technology & Development , Mumbai	The work involved evaluation of client sentiments using NLP packages to derive correlations between the real life results of positive and negative sentiment communications. Tool used (Development tools - H/w, S/w) : Python Objectives of the project : Major Learning Outcomes : Machine Learning, NLP Details of Papers/patents : Brief Description of working environment, expectations from the company : The expectations of the company are very realistic. The work environment is really good. All the peers are more than willing to help. The teams are very welcoming and take put time and effort for the interns. Academic courses relevant to the project : Have not pursued any courses relevant to the topic	2018-19-sem2
MSCI, Mumbai	Brief Description of working environment, expectations from the company: The work environment is extremely professional. QER is one of the best and most exclusive teams in MSCI. Your peers will all be seniors, mostly from IITs and MBAs from top IIMs/ISB, with CFA. The work hours are chill; you'll be mostly expected to work for 8-10 hours a day at max. Timings are flexible. Some people arrive at 9, and leave early by 5/6. Others arrive by 11/12, and leave by 8/9. So it'll mostly be at your convenience, as long as you're delivering what's expected of you. The team members are extremely helpful, which makes the overall environment very productive.	2016-17-sem2
MSCI, Mumbai	Considering MSCI as a financial services company, I expected some applications of my finance electives; however my work was more on the technical side. It involved building risk reports using XML and HTML software. Tools used (Development tools - H/w, S/w): XmL, HTML. Objectives of the project: Blue box reporting. Outcomes of the project: Business as usual work, risk report development. Major Learning Outcomes: Use of XML and HTML software. Brief Description of working environment, expectations from the company: Management is good. Work timing is flexible and very good canteen.	2016-17-sem2

Company	Experience	Year
MSCI, Mumbai	My work involved developing a framework for automation of rebalancing of MSCI indexes. I also worked on the research by analysing different value strategies and devising an improvised methodology for better returns. Tools used (Development tools - H/w, S/w): Matlab, SQL and VBA. Objectives of the project: Automation of Mock Rebalancing. Outcomes of the project: Reduced the 15min manual activity to a 1min code. Major Learning Outcomes: Better insights on different investment strategies. Better insights in market opinions. Brief Description of working environment, expectations from the company: Amazing team Great culture Flexible timings Good manager	2016-17-sem2
MSCI, Mumbai	Java Spring Web application to consume Restful service in order to sync data between servers. Web Scraping in Python using Selenium browser automation tool. RabbitMQ message queues for publish/subscribe application. AWS deployment management, writing scripts to manage EC2 instances, awscli to manage S3 buckets. Wrote REST API's in Python's Django framework for Master Data Management (MDM) application. Tools used (Development tools - H/w, S/w): Java, Python, Selenium, RabbitMQ, AWS, Django and spring. Objectives of the project: Web Scraping, AWS deployments and managing, MDM, Spring App. Outcomes of the project: Scraped essential data for the company and incorporated into company's Master Data. Contributed to the MDM by writing API's for the data. Major Learning Outcomes: Start-up culture, building software as a service for industry at large. Brief Description of working environment, expectations from the company: Working environment is not so great for a start-up. Feels more like a corporate than a start-up. But I hope things change, because many of the staff is really good and the management needs to realise this and cater to their needs a bit, like atleast shifting to a pleasant office and having a consistent and high speed internet connection (currently office in an industrial estate building!). Work is good no doubt and the company will be willing to give you (more/better) responsibilities, only you need to ask.	2016-17-sem2
National Aerospace Laboratories , Bangalore		2018-19-sem2

Company	Experience	Year
National Aerospace Laboratories , Bangalore	Development of hard coatings with improved mechanical properties usign HfZr composite alloys. Tool used (Development tools - H/w, S/w) : Magnetron Sputtering, XRD, XPS, FESEM, UVVis-NIR Spectroscopy, Nanohardness Objectives of the project : Achieve high hardness and toughness to replace existing Ti/TiN coatings. Major Learning Outcomes : Research experience in the field of PVD based coatings/thin films Details of Papers/patents : Two papers under review, one to be submitted before end Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Nanochemistry, Material Science	2018-19-sem2
National Centre for Biological Sciences , Bangalore	Student	2018-19-sem2
National Centre for Biological Sciences , Bangalore	Tool used (Development tools - H/w, S/w) : Cell culture techniques, transfection,immunostaining,western blot, imaging,cell profiler analysis Objectives of the project : Genetic manipulation and chemical perturbation of the host lysosomal system and determine the rate of survival of Mycobacteria Major Learning Outcomes : Host pathogen interactions, siRNA knock down Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Microbiology, immunology, animal cell technology,advanced cell and molecular biology	2018-19-sem2

Company	Experience	Year
National Centre for Biological Sciences , Bangalore	The project was related to the characterizing the pancreatic cancer mouse models and also to design the control experiments for the detection of the acetaldehyde adducts. For characterizing, genotyping PCR was used for six common pathogenic mutation of pancreatic cancer. The mouse models ear or tail biopsies were processed for DNA isolation and the PCR was performed with the respective gene's mutation designed primers. The results were analysed using imaging and the breeding was set by breeding strategy for desired genotype to be maintained. For the acetaldehyde adduct literature survey was done to design the protocol, initially detection using HPLC was considered but after several discussions LC-MS/MS was found to be reliable therefore protocol was designed for the same. The control sample was given for LC-MS/MS analysis and the results were awaited. Tool used (Development tools - H/w, S/w) : C1000 Touch™ Thermal Cycler, Thermo Scientific™ NanoDrop™ 2000/2000c Spectrophotometer, ™ CL1000 Imaging System from Thermo Fisher Scientific, gel electrophoresis Objectives of the project : 1. Characterization of the genotypes involved in pancreatic cancer in mouse pancreatic cancer model; 2. Detection of Aldehyde-induced DNA and Protein Adducts using LC/MS Major Learning Outcomes : Genotyping of the mouse models using PCR Details of Papers/patents : Brief Description of working environment, expectations from the company : The work culture is friendly, relaxed and productive. Seniors are open and honest for the communication and also are supportive, cooperative and emphasis on health, family and environment. Academic courses relevant to the project : Human Genetics, Genetic engineering, advanced cell and molecular biology	2018-19-sem2

Company	Experience	Year
National Centre for Biological Sciences , Bangalore	Glycans are branched sugar oligomers covalently attached to proteins on the surfaces of all living cells. Glycans are found on the outer surface of cellular and secreted macromolecules, which are in a position to modulate or mediate a variety of events in cell–cell, cell–matrix, and cell–molecule interactions which plays a role in the development and function of a complex multicellular organism and also in host pathogen interactions. Angiopoietin like-2 (Angptl2) is a 57-kDa protein which gets secreted into the circulation. The classical method to study Golgi fragmentation in small scale level is basic immunofluorescence, in which the cells are fixed and stained for particular Golgi marker. Working concentration of nocodazole was about 10µM to 33µM, paclitaxel of 10µg/ml and the titration of ilimaquinone (IQ) which ranged from 30µM to 100µM was treated on CHO cell line to disorganize Golgi. From the results obtained by immunofluorescence studies, it showed Golgi disruption at 33µM nocodazole on wild type CHO cell line. Western blot and SDS-PAGE analysis confirmed the presence of Angiopoietin (Ang-CHO) and other non-specific proteins (CHO). Conditioned media obtained at 48hours from CHO cells has optimum protein intensity to extract glycan. From the conditioned medium obtained from recombinant anptl2 CHO cell line purification is being performed to obtain the anptl2 protein. qPCR is in progress to determine gene expression upon Angptl2 induction on endothelial cells. Sample is being processed to extract glycans for mass spectrometry analysis in the future. Tool used (Development tools - H/w, S/w) : Cell culture, molecular biology techniques Objectives of the project : Find correlation between altered Golgi microstructure corresponding glycan profile. Major Learning Outcomes : Molecular biology techniques, mass spectrometry Details of Papers/patents : Brief Description of working environment, expectations from the company : and Academic courses relevant to the project : Animal Cell technology, Genetic Engineering, Experimental Techniques, Protein Engineering, Molecular Mechanism of Gene Expression, Immunology	2018-19-sem2

Company	Experience	Year
National Centre for Biological Sciences , Bangalore	My project consisted of crystallising a fusion protein, for which I was trained in protein expression procedure and automated purification tools like AKTA, using pre-packed columns Tool used (Development tools - H/w, S/w) : AKTA Avant and Pure Objectives of the project : To crystallise a viral protein Major Learning Outcomes : Protein expression and purification techniques Details of Papers/patents : NIL Brief Description of working environment, expectations from the company : State of the art facilities were provided Academic courses relevant to the project : Genetic Engg, ACMB, Computer and Statistics	2018-19-sem2
National Centre for Biological Sciences , Bangalore	Student	2019-20-sem2
National Centre for Biological Sciences , Bangalore	I genotyped hundreds of mice, collected tissues from a few narrowed down genotypes, fixed the tissue in paraffin blocks, Sectioned them, Stained and mounted them and observed them for physiological changes. Tool used (Development tools - H/w, S/w) : Polymerase Chain reaction, Agarose Gel Electrophoresis, Paraffin Tissue Fixation, Tissue Sectioning, Hematoxylin and Eosin Staining. Objectives of the project : To analyse tumours in genetically engineered Pancreatic tumour mice and stage them. Major Learning Outcomes : Learnt a lot of Biochemistry techniques and tissue processing Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : The work environment is extremely comfortable, everyone is very helpful. You are expected to be on time, be regular, be mindful of your peers, put effort into learning, participate in weekly discussion and contribute ideas. You should practice hard and pay attention when being taught so that you can start working on your own as fast as possible. Academic courses relevant to the project : Molecular Biology, Biological Chemistry, Anatomy Physiology and Hygiene, Biochemistry, Instrumental Methods of Analysis, Microbiology, Medicinal Chemistry	2019-20-sem2

Company	Experience	Year
National Centre for Biological Sciences , Bangalore	To optimize the over expression and purification of MCPH1 tBRCT protein to screen small molecular inhibitors targeting its phospho serine recognition through High Throughput Screening. Tool used (Development tools - H/w, S/w) : AKTA Avant and Pure, TECAN Freedom EVO, Nanotemper Monolith nt.115 Objectives of the project : Optimizatoin of Overexpression and Purification of MCPH1 tBRCT protein. Major Learning Outcomes : Protein expression and purification techniques Details of Papers/patents : Nil Brief Description of working environment, expectations from the company : The work culture is friendly, relaxed and productive. Seniors are open and honest for the communication and also are supportive, cooperative. State of the art facilities were provided. Academic courses relevant to the project : Microbiology, Pharmaceutical Biotechnology, Biochemistry.	2019-20-sem2
National Chemical Laboratory , Pune		2018-19-sem2
National Chemical Laboratory , Pune	Study of Biomass Gasification as Biomass gasification is a useful method to produce producer gas from Biomass, a renewable and everlasting source of fuel found easily in nature. CFD model is necessitated to understand the complexities of the design in a biomass gasifier. CFD modelling is carried out by a multiphase simulation setup. Kinetic modelling is incorporated so as to find the distribution of temperature, volume fractions by species transport model. CFD modelling is used to find the effect of varying air/biomass flow rate and air temperature on temperature profile, rate of reactions and mass fraction of different species Tool used (Development tools - H/w, S/w) : ANSYS FLUENT Objectives of the project : 1. To study about Biomass Gasification. 2 To model a CFD setup of Biomass Gsifier. 3. To study the effect of varying Air/Biomass Flow rate, air Temperature on Temperature profile, Rate of Reaction and Mass Fraction Major Learning Outcomes : 1. Study of biomass Gasifier 2.use of Ansys Fluent software Details of Papers/patents : Brief Description of working environment, expectations from the company : 1. Helpful people 2. Knowledgeable guides in the field of modelling and simulation, and data analytics. 3. No stipend from company 4. No official software available Academic courses relevant to the project : CHE G554 Computational Fluid Dynamics	2018-19-sem2

Company	Experience	Year
National Council for Cement and Building Materials ,	Ballabgarh Student	2019-20-sem2
National Council for Cement and Building Materials ,	In this project, various blends of Portland Limestone Cement were made with varying percentage compositions of clinker, limestone and gypsum. Then, the physical and mechanical properties of these cement blends were tested as per procedures mentioned in various IS and ASTM codes. After that, the concrete made from these cements were tested for their fresh properties (such as slump, setting times, bleeding, workability) and hardened properties (such as compressive and flexural strengths, drying shrinkage, modulus of elasticity, density) and durability studies were performed on them. Tool used (Development tools - H/w, S/w) : No hardware or software tools were used. Objectives of the project : To design an IS code for Portland Limestone Cement. Major Learning Outcomes : Important tests to be performed to check the durability of concrete were learnt. The importance of precision of data and testing accuracy and knowledge of test procedures and conditions for an R&D project was observed. Details of Papers/patents : Brief Description of working environment, expectations from the company : Work schedule is busy but organized. Individuals are expected to be punctual and disciplined. Target to complete tasks is given at the start of the day and accomplished tasks and backlog are expected to be reported at the end of each day. Academic courses relevant to the project : Construction Materials	2019-20-sem2
National Council for Cement and Building Materials ,	Designed methods for energy conservation in Indian cement plants Tool used (Development tools - H/w, S/w) : MATLAB, MS Office Objectives of the project : Recovery & Utilization of waste heat energy Major Learning Outcomes : Energy Audit for big scale plants Details of Papers/patents : Brief Description of working environment, expectations from the company : They provide a variety of impactful projects (including working on Govt policy and regulation changes for cement industry) for all core branches. Academic courses relevant to the project : Heat Transfer, PDP2	2019-20-sem2

Company	Experience	Year
National Council for Cement and Building Materials ,	Brief write-up on PS-II station : The students are working in the area of verification/Validation, Reducing Cycle Time for Build Quality Feedback through Enhancement in Hardware & Software Infrastructure, Testing and implementation of Advance eXtensible Interface Weighted Random memory Delay Module, Designing a wrapper component for CPUs, Providing Power support and managment capability from the firmware level to kernel level for latest hyperthreaded CPU Architectures designs of ARM etc. The students were given training on Labview in National Instruments. Students worked on various tools and languages like C, python, Linux/UNIX, verilog, computer architecture, shell scripting. Awareness of scripting languages, programming concepts and Computer Architecture are the areas the organisation is looking at for the various projects.	2019-20-sem2
National Instruments India Sales , Bangalore	Comments: Expectations from industry : The students are working in various VLSI and communication projects like peak detection and power estimation on I/Q data, receiver impairments estimation in MIMO systems, Fuel Gauge Algorithm Development in Li-Ion Batteries, Analysis on 2G logs, convert RTL design into netlist, design verification etc. Students are using Labview, verilog, VHDl and scripting languages like tcl, python , PLA tool, in their projects. The students can refresh their basics and learn basics of scirpting languages before they come for PS 2	2018-19-sem2
National Instruments India Sales , Bangalore	Projects on basic NI hardware and software, Systemlink and a capacitive proximity sensor. Tool used (Development tools - H/w, S/w) : LabVIEW, LabVIEW NXG, SystemLink, DAQ devices, PXI systems and cRIO systems Objectives of the project : SysteLink: Mounting an IIoT demo for the marketing team Major Learning Outcomes : Controllers, IIoT, Electronics Details of Papers/patents : Brief Description of working environment, expectations from the company : Great office environment. Expected a PPO and have been offered one. Academic courses relevant to the project : Comp. Prog., Signals and Systems, Control Systems, Power Electronics, Analog Electronics	2018-19-sem2

Company	Experience	Year
National Instruments Systems (India) Pvt. Ltd. , Bangalore	Mentor Name : Mr. Manoj Designation : Senior Group Manager, Rf department comments : The students are doing excellent Job. The student Yavinder singh was offered PPO as well. Comments: Expectations from industry : The students are working in various VLSI and communication projects like peak detection and power estimation on I/Q data, receiver impairments estimation in MIMO systems, Fuel Gauge Algorithm Development in Li-Ion Batteries, Analysis on 2G logs, convert RTL design into netlist, design verification etc. Students are using Labview, verilog, VHDl and scripting languages like tcl, python , PLA tool, in their projects. The students can refresh their basics and learn basics of scirpting languages before they come for PS 2	2018-19-sem2
National Instruments Systems (India) Pvt. Ltd. , Bangalore	Initially i have designed the peak detection algorithm using adaptive threshold approach. Using this algorithm solved peak search problems earlier faced by the my team such as Low frequency Image detection, peak detection in Wide band Signal and fixed tolerance value problem. After this started with design of Consolidated reporting for the existing test suite. This reporting structure is first of its kind in the company. This structure report about the Failed cases due to out of power and frequency tolerance, report no tone and multiple tone cases and finally worst power and frequency deviation cases followed by the existing report. Tool used (Development tools - H/w, S/w) : LABVIEW, Perforce Objectives of the project : This project is subdivided into 2 part. The first part deals with the design of robust algorithm for peak detection on I/Q data which try to mitigate the problem occurring in existing peak search algorithm. in second part of the project we have to build a new reporting structure which provides the summarized info of the complete test suite along side the existing report. Major Learning Outcomes : Learned about various signal processing algorithms Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Adaptive Digital Signal Processing	2018-19-sem2
NetApp , Bangalore		2018-19-sem2

Company	Experience	Year
NetApp , Bangalore	File Analytics for Ransomware Attack Detection Ransomware creators use encryption algorithms that prohibit you to decrypt files on your own. Traditional solutions available for this kind of attack can however not be used in NetApp Storage devices. Since traditional solutions use methods such as analysis of the application which does the ransomware attack, for a NetApp filer the application data is not available at the filer level, only requests from the user in terms of read, write and deletions are used. Hence a combination of three major techniques is used to detect the ransomware attack. Analysis of access patterns, randomness indicators and hash related information might be used to detect the ransomware attack has occurred. machine learning techniques are being tried and tested for detection of ransomware attack with better accuracy and less number of false positives. Currently SVM has been able to provide the best results. Techniques specific to WAFL are used to recover, restore and backup user data. Tool used (Development tools - H/w, S/w) : Python , C , C++ Objectives of the project : Ransomware Attack Detection Major Learning Outcomes : WAFL FileSystem , Analytics Details of Papers/patents : None Brief Description of working environment, expectations from the company : The company has a good learning environment , I was allotted File System encryption team . My team members especially my mentor helped me understand the working of the file system . Apart from that they helped in understanding the problem statement well and I had enough time to do my own analysis regarding the project. There were a number of activities conducted for us like Volunteer Work , Outing and Presentation of our work . Overall experience was good. Academic courses relevant to the project : Operating System , data mining	2018-19-sem2
NetApp , Bangalore	I worked on operating system of NetApp. Adding new feature to OS in order to protect data is main target. Studied how to replicate data and recovery of data after disaster. Studied about storage system. Tool used (Development tools - H/w, S/w) : Vi editor Objectives of the project : Data Protection Major Learning Outcomes : Learned about workflow of data protection Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Data storage and networking technology	2018-19-sem2

Company	Experience	Year
NetApp , Bangalore	The domain that I'm assigned with at Netcore Solutions is Customer Success, mainly dealing with the enhancement of Customer Engagement and Customer Retention practices of the firm's associated brands. I'm assigned to the Marketing Technologist & CSM team at Netcore's Bangalore Office. The team is expected to do anything and everything for making things happen for the customers and ensure quality standards of consulting & service to clients are maintained/improved. As a part of the team, I'm required to closely work as a Marketing Technology Consultant with leading brands of the corporate across channels like: • E-Mail • SMS • App Push Notification • Web Push Notification • In App Notification • Voice Messaging • Facebook Custom Audience Assisting them on establishing the best practices and optimizing their efforts across these channels. My day-to-day responsibilities include: • Assuring that the above mentioned brands are being provided with the best Email Delivery Services by ensuring high delivery rate, open rate and click rate for their email campaigns through cross departmental coordination within the firm. • Assuring that the weekly and monthly goals that are set for the above brands are met and the KPIs are achieved. • Actively involved in ideation and execution of effective campaigns for brands to drive traffic and revenue. • Exploring the best of analytics to help the associated brands better their user engagement and retention strategies. • Maintaining relationships with Senior Level connects from the client side through continuous interaction with them. Tool used (Development tools - H/w, S/w) : Smartech (Netcore's Growth Platform for Brands), Power BI, MS Excel, MS PowerPoint. Objectives of the project : Major Learning Outcomes : Email Marketing, Email Delivery, Innovative Campaign Ideation, Client Handling Skills Details of Papers/patents : None Brief Description of working environment, expectations from the company : The work environment is dynamic but very nurturing. You are required to come up with quick solutions to the problems that are thrown at you. The work that you are associated with is very fast paced which will push you to perform to your maximum efficiency. The learning curve is steep for the role assigned. Even though its a managerial role, you are expected to be technically sound as well. The team is expected to be expendable and adaptable in their work. Academic courses relevant to the project :	2018-19-sem2

Company	Experience	Year
NetApp, Bangalore	Use ONTAP performance log data to derive a performance anomaly signature to characterize system performance and detect anomalies. Implemented Feature Selection algorithm to perform dimensionality reduction on dataset. Used linear regression model to predict CPU utilization. Developed rest API for Feature Selection algorithm to use as macro function. Tools used (Development tools - H/w, S/w): Python, R. Objectives of the project: Use ONTAP performance log data to derive a performance anomaly signature to characterize system performance and detect anomalies. Outcomes of the project: Identified linear relation between performance log data and CPU utilization. Major Learning Outcomes: Application of Machine Learning Technique in Performance analysis use cases. Brief Description of working environment, expectations from the company: Comfortable environment to work. Good guidance from managers and mentors. Events conduct to showcase work done by interns.	2016-17-sem2
NetApp, Bangalore	Automation for the new product developed in the team. Tools used (Development tools - H/w, S/w): Perl Scripts. Objectives of the project: Core functionality testing and Regression analysis. Outcomes of the project: Found several product bugs and regressions. Code checked into the production. Major Learning Outcomes: Development life cycle of a new product development. Idea about the Testing scenarios needed to be taken care and also Timeliness. Brief Description of working environment, expectations from the company: Working environment was really good and team and team mates being quite friendly and helpful in all situations even when work was bit challenging at time their timely help helped to accomplish the goal within deadline.	2016-17-sem2

Company	Experience	Year
NetApp, Bangalore	Worked on areas involving deduplication, cryptography and data security in the cloud. Designed a solution architecture that reduplicates encrypted data in the cloud, which is a prevalent problem in academic literature regarding data security. First, the problem to be solved was formulated and then I researched techniques in research papers that would be applicable in solving the problem. The architecture was designed on the basis of the research work. A proof of concept implementation was done along with experiments based on that implementation. Tools used (Development tools - H/w, S/w): Python and its libraries, software related to data security, Docker. Objectives of the project: Design an architecture which solves the secure deduplication problem, which aims to deduplicate encrypted data in the cloud. Also make a proof of concept implementation and produce results based on the implementation. Outcomes of the project: Designed architecture to solve the secure deduplication problem and finished a proof of concept implementation along with results based on the implementation to prove the practicality of the proof of concept. Major Learning Outcomes: 1) Formulating a problem that is to be solved along with what goals to achieve. 2) Research of existing techniques that are applicable to the problem to be solved. 3) How to present a research oriented project at each point of its life cycle. Brief Description of working environment, expectations from the company: The working environment is very relaxed and the company allows employees to have flexible work hours. NetApp trusts the employees to do their work and hence does not push employees to be at the office for a fixed number of hours. The employees can spend time at the office between any timing, according to their lifestyle and can take work from home if they are not required to be in person at the office (can also attend meetings through video conference). The work life balance is excellent. The company has some sort of event or competition nearly every week.	2016-17-sem2
NetSkope Software India Pvt. Ltd. , Bangalore		2018-19-sem2
NetSkope Software India Pvt. Ltd. , Bangalore	PS-II provided me an opportunity to put my theoretical knowledge into practice. It gave an industrial exposure and an experience of the real world scenario suitable for my technical background. After having spent a duration of five and a half months at my PS - II station, Netskope Inc., can positively say that I have gained a lot of confidence and	2018-19-sem2

Company	Experience	Year
	expertie to face the challenges in the industrial world. The Work mostly comprised of improving the features/bugs in their major products which led me to gain the knowledge of how the code is written at the production level. I was also given work in the Dev-Ops field. I also had to write many flask applications which were wrappers for various other cloud applications. You get to learn about the cloud applications, networking a lot in this company. I was also involved in the creation of an Employee Recognition Portal which was for the HR team. Apart from the project PS-II also gives us industrial exposure. I learnt how coding standards are in an industrial environment. Modulation of the code is of utmost importance. This is because a major concern of the institutions is scalability of the code. The code should remain usable even after a particular person is off the project. It should be understandable to everyone. Thus, variable names, packages, documentation etc. need to follow certain rules as specified by the company. In an industrial environment, essional conduct is also of a lot of importance. PS-II gave me an exposure to this area as well. Addressing your colleagues and documenting all conversations via emails is very important in a work environment. As it was my first exposure to IT culture and this programme helped me in every possible way to make transition from an all-academic environment to an industrial environment. Five and a half months is optimum time to get acquainted with these changes. PS-II broadened my knowledge and boosted a lot of confidence in me. Tool used (Development tools - H/w, S/w) : Linux, Ansible, SSH, Flask, AWS-SAM, SignalFx, Bootstrap, Celery Objectives of the project : 1) Automate the process of VM provisioning, 2) Add SignalFx metrics for SLO tracking, 3) Create an Employee Recognition Portal. Major Learning Outcomes : Learning Flask, Ansible, SignalFx, Bootstrap, Celery, AWS-SAM Details of Papers/patents : No Research Paper and patents were made or referred as it was software development work. Brief Description of working environment, expectations from the company : The work environment of the company is amazing. The people are really helpful and sincere in their work. They listen to your doubts however silly they might be and try to solve them and all of them are approachable. There are regular knowledge transfer sessions which helps in listening to others' work and what problem they are facing and how they solved it this leads to recognising the problem if faced by you in the future and then you can solve it yourself only. The company is a start-up and this is the main reason why the	

Company	Experience	Year
	place is so amazing. The business is doing well and thus is attracting new talents from top institutions and have a healthy environment. Academic courses relevant to the project : Cloud Computing, Computer Networking	
NextGen PMS Pvt. Ltd, Bangalore	Comments: Expectations from industry: I express true gratitude for the contributions made by the students and an understanding that these contributions were critical and exclusive to each individual. Industry mentors had wonderful capacity and the opportunities they gave to our students, helped to build strength and character. I asked students to be proactive in thinking before performance issues develop, I would like to put on record that because of hard work and inter personal skills and efforts that students have put in to make the project to a great success. Appreciate the great organizations, where general willingness to learn did not go unnoticed. I want to take a moment to share an incident, where the students were asked to develop the features that are critical to the customers. They didn't disappointed; they understood highly complex innovations in very short span of time and delivered good quality code. Great Job, it means you've made a difference. Student	2016-17-sem2
NextGen PMS Pvt. Ltd, Bangalore	• Strategy o Go-to-market strategy: Sketch out how, when and by what media will the product be delivered to the end customer, whilst keeping competition at bay. O Customer engagement strategy: Developing strategies to ensure usage on the platform and the delivery of value to the end customer. • Feature Definitions O Definitions: Define new features after interviewing all stakeholders for their needs and wants and post requirements to the p3 technology platform development team. • Testing – Testing new and upgraded features in a controlled environment before the product is pushed into production. • Product Analytics – Analytics enables the product manager to track how the product is being used by its users. Tools used (Development tools - H/w, S/w): MS Word, PowerPoint, Excel, Adobe Photoshop, Good era Enterprise, Partner, and People. Objectives of the project: Launch of p3Partner, p3Corporate - Grants Management System. Outcomes of the project: NextGen saw the launch of its technology platforms. Major Learning Outcomes: Product Management, Analysis, Design Thinking, Presentation. Brief Description of working environment, expectations from the company: Everyone is really helpful.	2016-17-sem2

Company	Experience	Year
NIVEA , Mumbai		2019-20-sem2
NIVEA , Mumbai	Designing an automated, visible and systematic system using Microsoft 365 Tools like Power BI, Power Automate and Power Apps for promotion packs in NIVEA. Tool used (Development tools - H/w, S/w) : Microsoft 365 Tools Objectives of the project : Designing an automated, visible and systematic system using Microsoft 365 Tools like Power BI, Power Automate and Power Apps for promotion packs. Major Learning Outcomes : Learnt Power BI, Power Apps, Power Automate. Details of Papers/patents : Brief Description of working environment, expectations from the company : Great work environment. I was the only intern and my manager was a good person. Academic courses relevant to the project : Supply Chain Management	2019-20-sem2
Nomura - FinTech , Mumbai		2019-20-sem2

Company	Experience	Year
Nomura - FinTech , Mumbai	The Fintech department aims to bridge the gap between finance and technology. It recognises the technological pain points of the various financial divisions in the firm and connects them with internal IT/external vendors for solutions. The interns were allotted a project on Augmented Reality. Since it was a relatively unexplored theme in finance, a lot of effort had to go in for learning the tech from the start as well as in product development. As part of 'business as usual', the interns collaborated with various divisions for adopting and proliferating digital tools. Extensive market research was done on new business models the firm was looking for potential adoption. Various decks for presentation for the senior management were prepared. Tool used (Development tools - H/w, S/w) : Excel, PowerPoint, Unity 3D Objectives of the project : To get a hands on experience on a modern technology and it's relevance to the firm's business Major Learning Outcomes : Being up to date with both financial markets and modern tech Details of Papers/patents : Brief Description of working environment, expectations from the company : The company does not differentiate between a full time employee and an intern. The opinion of interns are always sought and valued during meetings and calls. The working hours are flexible. The managers and other employees are always willing to help. The expected deliverables are time bound but reasonable. Academic courses relevant to the project : FOFA, Business Analysis and Valuation, Financial Management, Security Analysis and Portfolio Management	2019-20-sem2
Nomura - FinTech , Mumbai	Work involved liasing with various divisions within the company to map out their technological needs and finding the relevant tools required to match the needs. Also performed market research for some projects and made an app for the annual technological fair of the company. Tool used (Development tools - H/w, S/w) : PowerPoint, Excel, R Objectives of the project : Collating the technological needs of the firm Major Learning Outcomes : Exposure to various divisions within Nomura, interaction with clients and understanding workflow and decision making systems of large banks. Details of Papers/patents : Brief Description of working environment, expectations from the company : Very open environment, seniors are approachable. Academic courses relevant to the project : Bit of Financial Management was required for one of the project.	2019-20-sem2

Company	Experience	Year
Nomura - Wholesale Strategy , Mumbai	Student	2018-19-sem2
Nomura - Wholesale Strategy , Mumbai	The projects are really interested. It is more or less consultancy project for higher managenet of Nonura.You will get to learn a lot of new things in finance. It is the combination of finance +consutancy. Very unique team and real good learning oppertunities Tool used (Development tools - H/w, S/w) : Bloomberg,Thomson,power point,Excel Objectives of the project : Imvestment banking and Global Markets strategic performnace improvement Major Learning Outcomes : Excellent ppt and excel skill , learnt a lot of thing about investment baking Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : All the Finance course	2018-19-sem2
Nomura Global Finance , Mumbai		2018-19-sem2
Nomura Global Finance , Mumbai	I worked with the product control department supporting Investment Banking Division of Asia (excluding Japan) region. My job was to maintain their databases which reflects the IB work. We handled all the P/L statements and associated movements. I was also involved in the restructuring work and automation projects. I built certain reconciliation files for them. Tool used (Development tools - H/w, S/w) : S/W : MS Excel Objectives of the project : Daily BAU Major Learning Outcomes : Total quality management, various concepts of accounting Details of Papers/patents : NA Brief Description of working environment, expectations from the company : The work environment was very professional and the company expects you to take responsibility towards your job. You need to take initiative and be at your professional best Academic courses relevant to the project : Fundamentals of Finance and accounts	2018-19-sem2

Company	Experience	Year
Nomura Global Finance , Mumbai	Ensured the accuracy of trade bookings and the correct representation of trades in the risk booking systems. Have validated that, for all in-scope deals, all economic parameters captured in the trade booking are thoroughly reviewed, documented and recorded. Addressed the risk of booking errors or misrepresentation in books & records for trades where there is no direct link between the trade ticket and the final trade confirmation, together with other non-standard and complex trade types. Tool used (Development tools - H/w, S/w) : MS Excel Objectives of the project : Reviewing the Fixed Income deals Major Learning Outcomes : Learned a lot about the structured financial products, particularly the structure and the flow during the the life cycle of a trade. Details of Papers/patents : Brief Description of working environment, expectations from the company : The Structured Deal Review team is quite supportive and had a great time with them. Helped me at every stage of the process. Academic courses relevant to the project : -	2018-19-sem2
Nomura Global Finance , Mumbai	Profit and Loss reporting at Product Control Division, Nomura Services India Ltd is done for several regions which involves tallying of the trade values recorded in back office, front offices and with the estimates given by traders. It monitors Profit or Loss numbers are within specified limit and reports to the appropriate desk if they are huge.My primary responsibility was to produce P&L for the trading desk,substantiate the P&L numbers, explain the P&L to both the traders and onshore regional controllers and ensure that they maintain a 'control' environment. Tool used (Development tools - H/w, S/w) : Excel, VBA, In-house softwares Objectives of the project : Business as Usual Major Learning Outcomes : Understanding markets, financial derivatives, & proficiency in Excel Details of Papers/patents : Brief Description of working environment, expectations from the company : Very good corporate culture. Academic courses relevant to the project : FOFA,DRM	2018-19-sem2
Nomura Global Finance , Mumbai		2019-20-sem2

Company	Experience	Year
Nomura Global Finance , Mumbai	I worked with the product control department supporting Investment Banking Division of Japan region. My job was to maintain their databases which reflects the IB work. We handled all the P/L statements and associated movements. I was also involved in the restructuring work and automation projects. I built certain reconciliation files for them. Tool used (Development tools - H/w, S/w) : MS office (Excel, PowerPoint, Word, Outlook, SharePoint), Webex Objectives of the project : Daily production of profit and loss reports Major Learning Outcomes : Multitasking, Time management to deliver outcome, Accounting practices, Details of Papers/patents : NA Brief Description of working environment, expectations from the company : The work environment was very professional and the company expects you to take responsibility towards your job. You need to take initiative and be at your professional best. Academic courses relevant to the project : FRAM, DRM, FOFA	2019-20-sem2
Nomura Global Finance , Mumbai	For the most part of the internship work mostly consisted of doing Deal Reviews of various trades which was the regular BAU (business as usual) and for the later part of the internship was working on the Amendment Analysis using Power-Bi as well. Tool used (Development tools - H/w, S/w) : Sharepoint, Power BI, Excel, Alteryx Objectives of the project : Daily business as usual and Amendment Analysis using Power-Bi Major Learning Outcomes : Handling pressure situations and working with strict deadlines. An in depth understanding of practical aspects of how IB's middle offices work. Introduction into softwares like Alteryx, Power BI etc Details of Papers/patents : Brief Description of working environment, expectations from the company : Work environment is professional at the same time people are friendly and nice. The team was supportive and stuck together. Team do have some expectations from you. Academic courses relevant to the project : Derivatives & Risk Management	2019-20-sem2
Nomura Global Markets , Mumbai		2019-20-sem2

Company	Experience	Year
Nomura Global Markets , Mumbai	I worked under Nomura Global Markets division with ABS team. Under ABS, there are 2 teams. One works on loan financing and other works in strategy making for secondary debt capital market. My work was related with analysis of loan financed by Nomura. Here, analysis includes periodic assessment of payments made by clients and checking the parameters like delinquency, roll rate, charge off, interest payments, principal payments, prepayments etc. I also worked with issuance of loans to new clients where I had a chance to work with a model which checks the eligibility criteria. I was also assigned some weekly reports where I had to go through various research reports and prepared a summary for risk teams. Tool used (Development tools - H/w, S/w) : SQL, Microsoft Excel Objectives of the project : Loan financing Major Learning Outcomes : Understood the structure of loan financed by banks Details of Papers/patents : Brief Description of working environment, expectations from the company : Working Environment is friendly and helpful. No one will treat you like an intern and you hold the sole responsibility of your work. Academic courses relevant to the project : Financial Management	2019-20-sem2

Company	Experience	Year
Nomura Global Markets , Mumbai	I was part of the CVA Trading desk (under Business Resource Management team) for Asia ex-Japan which also manages FVA for certain regions. Small team - 5 including me, out of which the 2 senior-most work from Singapore. Must be at the desk by 7.30 am IST. Similar to other GM profiles, I was assisting in the daily BAU and wasn't given a dedicated project for the duration of 5 months. My daily work included but was not limited to: Running/reporting risk numbers for the desk, corroboration and attribution of daily PnL with MO/Finance along with providing commentary, scenario analysis, monitoring intraday market movements (FIDs only) and hedging positions internally, pricing CVA/DVA/FVA charges for new trades with Asian counterparties. The team also works on a few strategies and takes up ad-hoc projects- this is the more interesting part and you can actively involve yourself once you complete the earlier mentioned tasks. Tool used (Development tools - H/w, S/w) : Excel, internal Nomura tools for pricing Objectives of the project : Involved in daily BAU Major Learning Outcomes : Understanding the major risks associated with products in credit/rates/fx. Being a part of the BRM team gives access to a lot of information which helps get a picture of the overall business of the firm in the AeJ region. Details of Papers/patents : Brief Description of working environment, expectations from the company : Treated like any other permanent employee and with that comes an expectation to deliver quickly as well as accurately. Also, a lot of responsibility as decisions will be made on the information you provide. Stressful at times, but worth it. Academic courses relevant to the project : DRM, FRM	2019-20-sem2
Nomura Global Risk , Mumbai		2019-20-sem2

Company	Experience	Year
Nomura Global Risk , Mumbai	Learnt about risk calculation methodologies, regulations and importance; understood various financial products and their data sourcing & management; BAU: generating reports, data cleansing, data provision; automation of tools used for reporting, risk calculation, data cleansing and data provision Tool used (Development tools - H/w, S/w) : VBA, SQL, Python, MS Excel, Oracle DB, Power BI Objectives of the project : Automation and improvement of team reports, migration from one data source to another Major Learning Outcomes : SQL, Power BI Desktop, VBA, basic coding, organisational structure and work flow of Finance back office, regulatory knowledge of investment firms Details of Papers/patents : N A Brief Description of working environment, expectations from the company : The working hours are not very strict unless you stick to the your declared schedule, in place system for all work related necessities, friendly and young teams, helpful nature in regards with learners, open to new projects worthy for team Academic courses relevant to the project : Financial Engineering, Derivatives and Risk Management	2019-20-sem2
Nomura Global Risk , Mumbai	My work in Nomura was about the Risk management methodology. Our team here develops new risk hedging/mitigation techniques to curb the risk that the company poses while doing business. Tool used (Development tools - H/w, S/w) : Python, VBA and R Objectives of the project : Development of python tool to price an option Major Learning Outcomes : I got to learn a lot about finance sector. Got hands on experience of various financial products, technology used here. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is very cool and my manger was very kind. He always helped me in understanding and getting adjusted with team. My other team members were also very helpful and never hesitated in helping me when asked. Academic courses relevant to the project : Derivatives and Risk management	2019-20-sem2
Novartis , Hyderabad		2018-19-sem2

Company	Experience	Year
Novartis , Hyderabad	Created an in house Customer relations management tool based on excel to have a better and standardized form of engagement with our existing customers and potential customers. Tool was made on the basis of past data available. Tool used (Development tools - H/w, S/w) : Ms Excel, MS POWERPOINT Objectives of the project : Have a better engagement with customers Major Learning Outcomes : How to draw insight from the large data Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Not applicable	2018-19-sem2
Novartis Healthcare Pvt. Ltd. , Hyderabad		2019-20-sem2
Novartis Healthcare Pvt. Ltd. , Hyderabad	I automated the whole market information summary report by drawing a flow sheet in alteryx software. Other than this I mapped wholesalers data with the raw data and then generated multiple presentations by Linking it to alteryx and thus sending daily reports. Tool used (Development tools - H/w, S/w) : Alteryx advanced excel Objectives of the project : To automate the market information summary report for Korea region Major Learning Outcomes : Generated revenue of about 3000 dollars and reduce the time drastically Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Work life was in balance and is one of the best companies where you can work at your own pace. Academic courses relevant to the project : No	2019-20-sem2
Novartis Healthcare Pvt. Ltd. , Hyderabad	My work mostly included the analysis of data using excel, python and R Tool used (Development tools - H/w, S/w) : Excel, Python, R, SQL Objectives of the project : Business Insights Major Learning Outcomes : Analysis, Time Management and Team Work Details of Papers/patents : Brief Description of working environment, expectations from the company : An excellent work environment. All the employees are friendly and always ready to help. Academic courses relevant to the project : Probability and Statistics, Machine Learning	2019-20-sem2
Nreach Online Services Pvt. Ltd. , Bangalore		2018-19-sem2

Company	Experience	Year
Nreach Online Services Pvt. Ltd. , Bangalore	Worked HR team in starting of my PS after that in Marketing , BTL marketing, Social Media and Digital marketing. Tool used (Development tools - H/w, S/w) : google adwords Objectives of the project : - B2B events to genrate leads, social media and ad words, content distribution. Major Learning Outcomes : Learned a lot about marketing. Details of Papers/patents : Brief Description of working environment, expectations from the company : Xoxoday Company has a good and a friendly environmental and its a good startup to learn and gain experience. Academic courses relevant to the project : marketing research, international business etc	2018-19-sem2
Nreach Online Services Pvt. Ltd. , Bangalore		2019-20-sem2

Company	Experience	Year
Nreach Online Services Pvt. Ltd. , Bangalore	I individually called and contacted close to 120 brands for alliances and partnerships with the companies. I converted 10 of them that increased the revenue of the company. I also worked on affiliate marketing and brought in close to 400 functional links from various brands that resulted in an increased inflow of money for the company. It is very good for the company as there are no manual efforts included in these links once they are made live. Approximately 80 of them have already been made live and the rest are in the process of agreement and approval. I also worked in the Marketing and Product teams, in which I increased the Domain authority of the company from 38 to 44. The Domain authority increases on a logarithmic rate and hence, the increase is massive. This was achieved through on-page and off-page SEO (Search Engine Optimization). Tool used (Development tools - H/w, S/w) : SEM RUSH, SALES QL, VBA Objectives of the project : To increase the brands in the company and automate processes Major Learning Outcomes : Learned SEM Rush, Excel VBA and analytics. Also gained professional skills such as company calling and negotiations Details of Papers/patents : None Brief Description of working environment, expectations from the company : The organization is a startup which as about 200 employees. They have offices spread across three buildings in HSR Layout in Bangalore. The workplace is small but comfortable. You get to work with various departments and people from different concentrations. The work is mainly related to automation, alliances, marketing, and sales. Location is good as there are a lot of food joints nearby and other PS Stations as well. There are a lot of PG and houses for rent nearby and so it is easy to get a house near the company offices. Academic courses relevant to the project : Effective Public Speaking	2019-20-sem2
Nucleus Software Export Ltd , Noida		2019-20-sem2

Company	Experience	Year
Nucleus Software Export Ltd , Noida	Parsing of SQL queries and creating excel, Parsing of Java File. Modification of an existing screen Tool used (Development tools - H/w, S/w) : Antlr, Program Structure Interface, Spring Boot. Objectives of the project : Automation Major Learning Outcomes : Improves programming skills, Learned new technologies Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment was quite good, Seniors were helping. Academic courses relevant to the project : Data Structures and Algorithms, OOP, Compiler(Optional)	2019-20-sem2
Nucleus Software Export Ltd , Noida	Design a Question Answering System based upon intent based search point to a paticular unique answer and not to a set of answers. Tool used (Development tools - H/w, S/w) : Eclipse IDE,WinSCP,Putty Objectives of the project : The aim of the project was to get answers to any intent based question upon pre-defined text. Major Learning Outcomes : Got to learn about designing of User Interface,ajax calls,maven project designing,API designing and training and testing neural network models. Details of Papers/patents : Brief Description of working environment, expectations from the company : Nucleus Software is an Indian IT company in the Financial Services sector.The working environment is good as the mentors are helpful and so are the sub-mentors.We got to work in the R&D team of the company. Academic courses relevant to the project : Machine Learning	2019-20-sem2
Nucleus Software Export Ltd , Noida	My project was vehicle monitoring system .The project keeps a track of the cars that are inside the company premises.if a car enters then the count is incremented.it is a extension to the faredge application.it is related to object detection. Tool used (Development tools - H/w, S/w) : Java,spring boot,opencv,python Objectives of the project : This project is aims to track the number of spots filled. Major Learning Outcomes : I learned python,java,spring framework and basics of ML Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment is very good.you have lots of free time if you joined this company.you can get PPO if you worked hard. Academic courses relevant to the project : Neural net and fuzzy logic	2019-20-sem2

Company	Experience	Year
Nucleus Software Export Ltd, Noida	Comments: Expectations from industry: Nucleus Software, Noida: Mostly interested in taking students of EEE and related streams, with software skills. Students should prepare themselves for Java programming and related technologies. Good chances of PPO on clearing of a written examination. Company is highly interested in absorbing Bitsians. Student	2016-17-sem2
Nucleus Software Export Ltd, Noida	Mostly on technologies related to spring, Hibernate, NodeJS, AngulaJS, JQuery, Java. Tools used (Development tools - H/w, S/w): Eclipse, Java, and Maven Objectives of the project: To build a face authentication system Outcomes of the project: implemented real time attendance marking system using face recognition Major Learning Outcomes: Java, Maven, OpenCV, Python. Brief Description of working environment, expectations from the company: Mandatory working hours 45/week, good facilities provided, workculture is decent and varies from one team to another, expectation is to build applications functioning on java and JS frameworks.	2016-17-sem2

Company	Experience	Year
Nucleus Software Export Ltd, Noida	I was mainly involved in the development work. I was given different stories each of which had some business demands and i had to fulfill them by developing the functionality that was needed. I also used to solve some issues related to JQuery, Bootstrap, etc. I also made a tool using groovy which is used to compare two war files and gives a detailed csv output with all the differences. Tools used (Development tools - H/w, S/w): Java, spring, Hibernate, Sql. Objectives of the project: To make the groovy tool a public utility within Nucleus Software. Outcomes of the project: This tool will be merged in the existing project and has been sent to the testing team. Major Learning Outcomes: Core Java concepts, spring, SQL. Brief Description of working environment, expectations from the company: Different experience all together. We started off in a learning environment where we were given proper training about the Core Java concepts, Spring etc. This was really beneficial because few of us were new to all these concepts and those who weren't, they also got a chance to brush up their concepts again. Everyday there used to be lectures that we had to attend and where learning was actually fun and after those we were given tasks/assignments to complete each day that we had to finish. In the beginning we used to work from 95 and then we had an option of going to their rejuvenation center which has TT and pool tables along with carrom, gym and some music equipments. After 2 months of training, we were allotted our teams and we began our work. Work and life balance has to be maintained and that again depends on the team you are in. Some managers themselves leave by 5 and some start off their main work in the evening by 5 and work till late in the night. So working hours is not something that is fixed in this company. Rest, everything was good, people are friendly and really helping and the best part is that it already has a lot of Bitsians so it is definitely one of the very good PS stations that one can consider working in.	2016-17-sem2

Company	Experience	Year
Nucleus Software Export Ltd, Noida	We had to build a face detection system using OpenCV, Python and java. Tools used (Development tools - H/w, S/w): OpenCV, Python and Java Spring. Objectives of the project: To build a Face Detector using OpenCV. Outcomes of the project: Improve the attendance system using face detection. Major Learning Outcomes: Learnt about java spring & OpenCV with python. Brief Description of working environment, expectations from the company: System provided by company for projects are not great .Also we had to wait for several days for simple approval.Working hours are not flexible.	2016-17-sem2
Nucleus Software Export Ltd, Noida	Worked on Lazy Loading and data analysis to predict further patterns. Tools used (Development tools - H/w, S/w): Machine Learning algorithms, angular 2, javascript. Objectives of the project: To customize the webpage and also to analyze the already collected data for loan lending. Outcomes of the project: As expected by the mentor. Major Learning Outcomes: Got front end experience and in depth knowledge about machine learning algorithms. Brief Description of working environment, expectations from the company: The working environment was very good as well as the mentors were very professional and eager to help us. They took initiatives to listen to our problems at hand and gave us time to learn. The colleagues were amazing to work with and the team was very goal oriented. Overall an amazing experience.	2016-17-sem2
Nutanix Technologies India Pvt. Ltd. , Bangalore		2018-19-sem2

Company	Experience	Year
Nutanix Technologies India Pvt. Ltd. , Bangalore	My work revolved around improving the logging system used at Nutanix. The current system simply logged information as strings in a text files which made the log files large and less informative. My work revolved around dumping more information that is relevant for debugging and re-creating specific issues and saving them as binary files thus improving the memory efficiency. The information being dumped primarily consists data of Remote Procedure Calls, SSH connections and Libvirt calls made to the hypervisor via a Python handle to it known as pylibvirt. Tool used (Development tools - H/w, S/w) : Python Objectives of the project : Improving the logging system at Nutanix both in terms of the information stored and the efficiency with which the data is stored by saving the data as binary files to use less space. Major Learning Outcomes : Ability to analyze large codebases, quickly prototype ideas in Python, writing unit tests to prove robustness of my code, more comfortable with Unix based systems. Details of Papers/patents : None Brief Description of working environment, expectations from the company : Very healthy and cheerful environment. Helpful peers, mentors and managers. Everyone is eager to solve your doubts and help you settle in easily. Everyone takes interest in your work and provide constructive criticism to help you get better. Academic courses relevant to the project : CS F372 Operating Systems	2018-19-sem2
Nutanix Technologies India Pvt. Ltd. , Bangalore	The first project was focused on development of the LCM Framework to enable LCM for dark sites (the sites which have no connection to internet). We implemented a basic DFS to traverse and populate the DB so that the upgrades are shown on the LCM UI page. The second project involved the closing and providing bug fixes during the Make Upgrades Great Again Bug Smash. The third project was involved in adding a support to genesis framework to enable and disable the various features directly from genesis. Tool used (Development tools - H/w, S/w) : Python, API, RPCs, Nutest Objectives of the project : learn about upgrade framework and provide functional support and features to it Major Learning Outcomes : Learnt about how an upgrade framework should work. Also saw various real-life applications of curricular subjects like DSA, OOPS and TOC. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : DSA, OOPS, TOC	2018-19-sem2

Company	Experience	Year
Nutanix Technologies India Pvt. Ltd. , Bangalore	Used Protobuf as Interface description language to define messages and services. Used gRPC to build client-server architecture applications. Used python to automate performance benchmark tests and measure system resource utilization. Build RPC client and server library in Go. Tool used (Development tools - H/w, S/w) : gRPC, HTTP, Protocol buffers, python, psutil, Go(language), C++ Objectives of the project : Compare the performance of gRPC and Nutanix RPC frameworks. Build a high performance Golang RPC client compatible with the Nutanix RPC framework and integrate into existing ecosystem. Major Learning Outcomes : Automation using Python. Using RPC to build micro-service architecture based applications. Performance testing of Servers. Monitoring System resource utilization. Details of Papers/patents : None. Brief Description of working environment, expectations from the company : Working environment is open, friendly and supportive. Academic courses relevant to the project : Computer Networks, Operating System	2018-19-sem2

Company	Experience	Year
Nutanix Technologies India Pvt. Ltd. , Bangalore	Automating hypervisor install on a virtual disk to improve productivity of the team. Creating a VM using qemu and passing appropriate disks to the hypervisor ISO to automate the install. Using post install scripts to finally configure the newly installed hypervisor. Downtime is the last thing a data center customer wants. While doing an upgrade the processes has to be killed and in case of a kernel upgrade the hypervisor needs to be rebooted. This means VM migration of downtime is required. To avoid such downtime the processes need to be "live upgraded". My work was creating a POC by writing a kernel module that allows quick move-paste of memory by copying page table entries of a process to it's child process. Tool used (Development tools - H/w, S/w) : Software used : qemu-system-x86_64, gdb, kgdb, pdb Objectives of the project : 1. Create AHV qcow2 images from AHV ISO images. 2.) Explore and research live upgrades scenario Major Learning Outcomes : 1) Virtualization with QEMU 2) Python debugging with pdb 3) Writing kernel drivers and kernel modules 4) Kernel debugging with kgdb and kdb 5) RPM package management and yum repositories Details of Papers/patents : 1 patent ticket filed, work in progress. Brief Description of working environment, expectations from the company : Team : AHV, Acropolis. Working environment: Very friendly people and flexible timing. Food is provided by the company. Quite interesting projects are given to the interns. Interns are encouraged to understand and file patents and propose new ideas for hackathons. Overall a great place to work. Expectation from the company is to spend time in learning new and challenging technologies and tools. There are no hard deadlines for projects. I have got different type of work at nutanix during my time including writing helper tools for team, bug fixing and R&D work. Academic courses relevant to the project : Operating systems.	2018-19-sem2

Company	Experience	Year
Nutanix Technologies India Pvt. Ltd. , Bangalore	Worked on development in the cloud networking team here. Had 3 projects - a datacenter monitoring application, a debugging CLI tool, and a customer-facing enhancement. Tool used (Development tools - H/w, S/w) : Elasticsearch, Django, Proprietary. Objectives of the project : The objective of the work was to build a datacenter monitoring tool that can give alerts based on the status of networking entities across all the datacenters. The second application had the objective of making debugging easier by providing a command line interface tool. The objective of the third one was to make enhancements in the way routing policies are configured by the tenants of Xi. Major Learning Outcomes : Using Elasticsearch to perform search and aggregations. Learnt about writing clean, readable code and the design approach to adopt while facing a problem. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Academic courses relevant to the project : None	2018-19-sem2
Nutanix Technologies India Pvt. Ltd. , Bangalore	The project work that I did at Nutanix mainly belongs to the area of big data and automation of computer science. In total, I did 3 projects. Invisible Release Management is a project where the aim is to automate the process of product release on the Nutanix portal. I added add/edit page functionality in the frontend as well as backend on the Nutanix portal. This also involves model generalization techniques. Streaming Kafka Infrastructure Framework and Fabric (SKIFF) is another project that I did which uses kafka streaming platform for real time usage processing/billing system. It involves building real time system with facility of retries. The product was tested using unit test cases, functional test cases as well as performance tests. It brought a revolutionary change in the existing billing architecture. Third project is about event handling using kafka. It basically involves building real time pub sub system. It also involves queueing system on the database implemented solely in node JS. It is a complete system with many types of components like rest API, kafka rest proxy, various types of authentication architectures etc. Tool used (Development tools - H/w, S/w) : Node JS, Backbone JS, Java, Python, Docker, apache Kafka, confluent platform Objectives of the project : Main objectives of the projects were automation and processing events/usages at real time using a message queues (kafka platform) Major Learning Outcomes : I learnt many software development and programming principles. I also learnt about CI/CD deployment	2018-19-sem2

Company	Experience	Year
	also code pipeline and review processes. I also learnt about Kafka and other messaging services for real time processing. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Nutanix is a startup but a rapidly growing company working in the area of cloud and distributed computing. The working environment is very pleasant, and the people here are very helpful. Especially my mentor who is a staff engineer and my manager who is director of our team are very helpful and friendly in nature. The work here is demanding but there are people in other teams also who are willing to help. Food and other facilities provided are also awesome. Also, there are some events arranged like interns' hackathon which encourage new ideas and implementations of the same which lead to end to end product. The work atmosphere at Nutanix is quite free in a sense that we can reach to anybody and there is not discrimination of any kind. The work and efforts are appreciated, and event senior directors and VP look into this. Academic courses relevant to the project : Object Oriented Programming, Computer Networks, Principles of Programming Languages, Machine Learning	
Nutanix Technologies India Pvt. Ltd. , Bangalore		2019-20-sem2

Company	Experience	Year
Nutanix Technologies India Pvt. Ltd. , Bangalore	Nutanix is a fast growing company in the fresh new field known as cloud computing. It has crossed more than one billion in market value within ten years. It has achieved this feat keeping the employee comfort as paramount. Free food that can give a four star hotel, a run for its money, re-imbursement for cabs, flights are few of the attractive benefits that lure in employees from elite companies like Amazon and Oracle. Nutanix is like the horn of Cornucopia when it comes to the welfare of employees. I got hired as Intern as part of the practise school program. Since I did not have to cross the rigorous interviews and myriad tests, I was grateful to be here. I was assigned as part of Xi-infra team. The team takes care of management of data center services. I was assigned a task to automate the setting up of a data center . The project was a full stack learning experience. There was development and ingenuity involved in making the workflow, some automations to make life easier and a bit of testing too. In the end, I got to setup an actual data-center using the package that I made. It was a good experience where I learned valuable skills for working in an IT industry as well as an ignoble comfortable lifestyle. The important lesson is difference between the code of an undergraduate and an IT professional. While the novice can do away with concepts of abstraction, encapsulation and dump his code into a single file, the professional makes a well-listed code with intricate file dependencies to ensure that these concepts are implemented. Tool used (Development tools - H/w, S/w) : Canaveral ,CircleCI, Git, PyCharm IDE Objectives of the project : Develop of client to bootstrap a new datacenter Major Learning Outcomes : Professional way of writing code with emphasis on concepts like abstraction, encapsulation and linting . Details of Papers/patents : Brief Description of working environment, expectations from the company : Free food that can give a four star hotel, a run for its money, re-imbursement for cabs, flights are few of the attractive benefits that lure in employees from elite companies like Amazon and Oracle. Nutanix is like the horn of Cornucopia when it comes to the welfare of employees. Working environment depends on your team. Fortunately for me, my mentor was a kind man. He guided me through the whole project with unfaltering enthusiasm. Academic courses relevant to the project : Computer Networks, OOP	2019-20-sem2

Company	Experience	Year
Nutanix Technologies India Pvt. Ltd. , Bangalore	I worked as a full stack developer in the SaaS team, though my work was more of UI work than the backend. As a part of the team, I went through the whole process of bringing data from the db to the backend, to the graphql layer and then to the UI which is quite a learning in itself. My major development tasks included: 1. Building a dynamic quote questionnaire in which the fields appear on the basis of the prices, types of products and the discounts applied on the product. It was a very interesting task and took some time to complete as there were a lot of corner cases and validations required. 2. Making UI pages for various kinds of products and writing the graphql queries for getting data from the backend. 3. Inline editing of quote line prices, discounts and quantities: It has to be the highlight of the internship work and I was appreciated for this. In total, the work was web development with my part stressing on ReactJs and GraphQl. The work was completely deadline driven with daily scrums and a totally professional environment. Was given all the help and support I needed to do my bit. Tool used (Development tools - H/w, S/w) : Visual Studio Code, IntelliJ Idea CE, Robo3T, DBeaver, Postman, ElasticSearch Objectives of the project : Building a quote price configure product(Xcelerate) Major Learning Outcomes : I had never coded in JavaScript and was straightaway thrown into UI using ReactJs and using GraphQl. Setting up the project(Rules engine, SpringBoot microservices, UI, Graphql, ElasticSearch) itself took a week. The learning curve is super steep here. Details of Papers/patents : - Brief Description of working environment, expectations from the company : The working environment of the company is top class. Most of the teams and the work is amazing too. Most of the very experienced employees are very humble. You can expect quality work here, be it any domain. Academic courses relevant to the project : OOP, OS, DBMS.	2019-20-sem2

Company	Experience	Year
Nutanix Technologies India Pvt. Ltd. , Bangalore	I was assigned to the CALM (Cloud Application Lifecycle Management) team. The team mainly works in Python, Golang (back-end) and React.js (front-end). The first task was to implement a simple API in Python, for which I had to work with Flask. After that I had to write a plugin as a part of a new repo, using Golang and PostgreSQL for db; after this, I was regularly assigned tasks associated with that repo, writing a few other components and writing build scripts, Jenkins integration for the various components of the repo. Overall, it was quite a learning experience as my work involved working with various open-source tools (eg: OpenAPI generator) and participate in the various discussions with PMs related to my projects. Tool used (Development tools - H/w, S/w) : Python, Flask, Golang, REST, OpenAPI, Jenkins, Shell scripting, Git Objectives of the project : Approval Plugin for the Plugin Framework Major Learning Outcomes : Worked with various open source tools, learned certain industry conventions regarding coding, designing APIs. Details of Papers/patents : Brief Description of working environment, expectations from the company : My team can be easily counted amongst the ones with the best work environment here, be it the co-workers, manager, or the quantity of work. Regarding expectations from the company, we had a talk by Nutanix at our campus in the last semester, where the emphasis was on how Nutanix treats its interns as employees, and initially, there may be some difficulty in adjusting to the work. It was actually true. Also, it helps if you've done courses like networks and software engineering (but your proficiency in CS subjects won't matter, if you get lucky with the team allocation process). Academic courses relevant to the project : Computer Networks, Operating Systems, Software Engineering, Data Structures and Algorithms, Database Systems	2019-20-sem2
Nutanix Technologies India Pvt. Ltd. , Bangalore	I worked on automation of satadom breakfix. This is used to host hypervisor in datacenters and the above procedure fixes a corrupted or broken one in multiple ways. Tool used (Development tools - H/w, S/w) : Python, shell scripting Objectives of the project : Complete automation of testcases Major Learning Outcomes : Testing framework in companies Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is very good. Supportive colleagues Academic courses relevant to the project : Python , OOPS	2019-20-sem2

Company	Experience	Year
Nutanix Technologies India Pvt. Ltd., Bangalore	I contributed towards the design and development of parts of an testing framework consumed internally by product development teams by providing interface agnostic abstractions over product's API end-points. I also contributed towards the development of an automated test engine. I also worked on one-click deployment of multi server monitoring tool and similarly developed a one script solution for end to end sandbox deployment for internal testing purposes. Tools used (Development tools - H/w, S/w): Docker, Vmware Vsphere, HyperV, MongoDB, Django, REST framework, Coding Language: Python. Objectives of the project: Provide hypervisor and interface agnostic abstractions for API end-points. Development of test engine. Outcomes of the project: Successfully deployed the monitoring tool and developed sandbox, abstractions and test engine. Also prepared a docker image registry clean up service. Major Learning Outcomes: Deep understanding of Networks, Databases, Virtualization and Operating System. Hands on experience with design problems. Importance of development of services that can be dockerized. Brief Description of working environment, expectations from the company: Working environment is very good. Everyone from team mates to VP is very approachable for guidance. The culture is focused towards individual growth too. Expectation from an individual are good. The work is given with an opportunity of an ownership.	2016-17-sem2

Company	Experience	Year
Nutanix Technologies India Pvt. Ltd., Bangalore	Nutanix is based on cloud and it provides a storage-compute product for enterprise level consumers. I worked on the Test framework development written in Python under the Automation Framework & Tools team. Learnt good design principles and techniques and advanced constructs like Meta classes, decorators and properties. Also worked on unit-testing of our framework using Mock library and pytest modules. Tools used (Development tools - H/w, S/w): Python - Pycharm, Bare-metal Hyervisors: ESX, KVM, HyperV, and REST APIs. Objectives of the project: Development of test framework. Outcomes of the project: Improvements and bug fixes and existing code base. Major Learning Outcomes: Good practices and design principles in Python, Docker and distributed systems. Brief Description of working environment, expectations from the company: Nutanix is above average in terms of working environment, there is a perfect balance in terms of recreation and work. Food is amazing and free of cost. Team mates are friendly and very intellectual (not just from work point of view). This is probably the best PS-2 company as far as working environment is considered.	2016-17-sem2

Company	Experience	Year
Nutanix Technologies India Pvt. Ltd., Bangalore	The internship at Nutanix has been a semester in BITS where I have learned to put my theoretical knowledge into application. Nutanix is a cloud computing Software Company that sells hyper-converged infrastructure (HCI) appliances and software-defined storage. I worked on a database monitoring tool in the initial phase of my internship. I was also involved in the major migration of a core package within Nutanix. In the later phase of my internship, I worked on the profiling page of the monitoring system and its related applications. Objectives of the project: 1) Modify the database monitoring system. 2) Add features to profiling page. Outcomes of the project: 1) modified the database monitoring system. 2) Added features to profiling page. Major Learning Outcomes: Mainly learnt about cloud architecture and cluster management. Also, learnt the various development processes and stages in an IT company. Brief Description of working environment, expectations from the company: The working environment is very good. All the people here are very friendly and helpful. Moreover the mentors and mangers always treat us like their friends rather than co-workers. There are team outings now and then to build up the rapport. The work is also very peaceful and the deadlines not at all suffocating. Coming to the perks, the pantries here have all the items you can think of to eat. There are reserved rooms for indoor activities like chess, foosball, TT etc. Also, everyday people here go to play some sport outside. Overall, it has been one awesome experience working here.	2016-17-sem2
Nutanix Technologies India Pvt. Ltd., Bangalore	Work was in the data replication team. Mainly used C++. There was no ML or NLP involved but only raw coding. There were both ups and downs of this. Learnt how to manage a code base with thousands of files and interface with each of them. Worked on asynchronous calls and RPC's. Tools used (Development tools - H/w, S/w): C++. Objectives of the project: Add a new feature in data replication called Near-sync. Outcomes of the project: Brought down the replication time form hours to minutes. Major Learning Outcomes: C++, C structures. Brief Description of working environment, expectations from the company: Awesome work culture, happy employees and enthusiastic people around. Food, cabs, refreshments all on the house.	2016-17-sem2

Company	Experience	Year
Nutanix Technologies India Pvt. Ltd., Bangalore	I was part of team Cerebro which provides a service that does backup, disaster recovery etc for the Nutanix Datacenter software product. I worked with the team on developing a set of workflows where users can protect VMs, backup VMs, restore, clone and migrate them across sites. The base code was already in place and I worked on adding more features. Tools used (Development tools - H/w, S/w): C++, python, Nutanix software. Objectives of the project: Stabilise the new software architecture being developed by Nutanix. Outcomes of the project: Added features that allowed co-existence of older APIs and newer APIs. Major Learning Outcomes: Proficiency in C++ and python. Brief Description of working environment, expectations from the company: Working environment is very relaxed and friendly. Mentors were extremely helpful. The company expects the employees to achieve the tasks as independently as possible. And they expect employees to come up with tasks to take up and solutions to problems on their own. Further, the mentors help at every step of the process.	2016-17-sem2
Nutanix Technologies India Pvt. Ltd., Bangalore	Worked in SQL Server Mobility Services team. The team focuses on automating migration of MSSQL servers from non-Nutanix to Nutanix clusters. My role was to provide UI automation testing support, PoC and shipping for a few features. I worked singly on the automation testing support, but worked with other members for major features. Tools used (Development tools - H/w, S/w): Python, Java, Dockers, vSphere, Jenkins, Git. Objectives of the project: PoC and implementation of a few features + Test automation support. Outcomes of the project: All of my work was used from Day 1, complete ownership. Major Learning Outcomes: Coding in collaboration, managing time, quickly narrowing down on cause of issues. Brief Description of working environment, expectations from the company: Very fast-paced work environment. Everyone is busy, and as an intern you might find it difficult initially to ask for each and every small thing. On-boarding is a bit slow due to this. Once in the flow, the work feels great! The production cycle is fast. Every month something new is shipped. Team bonding is a huge plus. Work-life balance is good. You can reach out to anyone very easily. There are every-day meets, work is tracked properly, and everyone gets roughly equal amount of workload.	2016-17-sem2

Company	Experience	Year
Nutanix Technologies India Pvt. Ltd., Bangalore	The first part of the project was to write a GDB script which could assist in the debugging of the underlying file system, ZFS. The reason for undertaking such a project was that, kernel debugging is not an easy task and to get the required details about the ZFS structures one would have to manually parse the addresses and look at the memory contents. Hence through this process, we could automate the whole routine and give a report. My script provides the user with a list of several commands to help in the process of debugging. Also an external python file has been written which would call crash-utility and run the script to produce the report automatically for a given dump. Whenever the system reboots, the dumps would be searched and if there does not exist a corresponding report, it will be generated automatically. In the second part I had to get a way to generate compressed ELF dumps and test them in GDB. Tools used (Development tools - H/w, S/w): C, GDB, Linux, ZFS, and VFS, make. Objectives of the project: Generating and debugging ELF dumps. Outcomes of the project: GDB script for automated report generation a dump in crash-utility. Major Learning Outcomes: Linux Kernel, ZFS, VFS. Brief Description of working environment, expectations from the company: The working environment was great and the company really takes care of its employees.	2016-17-sem2
Nvidia Graphics - Hardware , Bangalore	Mentor Name : Sathya K Designation : DFT Manager comments : • Delivered Graded Faults for IOCell in a GPU Chip • Initial coverage numbers were extracted, flow is verified so that we can add more tests to increase coverage in future. • Analytical and Problem solving skills were good o Ex : FSIM simulation mismatches , he solved with minimum guidance • Able to work well and co-ordinate with the team. o Ex: Task involved multiple interfaces and multiple projects.. • Motivated to work and contribute o Ex: Critically analysed the problems in evcd generation and fsim wrapper flow and helping with down flow fixes too.. • Need to improve on communication skills, need to communicate firmly and clearly when issues arise. Name : Vimal Zalariya Designation : Vimal Zalariya comments : Varanya has worked on Post Silicon Functional Validation of PCIE interface. The two key responsibilities in this role are performing PCIE bring up and stability validation. Bring up involves doing basic functional checkout for life, ensuring circuits are functioning reasonably well and there is no deal breaking issues. Stability validation would include stressing the entire PCIe subsystem in	2018-19-sem2

Company	Experience	Year

conjunction with the rest of the GPU across Process, Voltage and temperature variables of the productization limits. Working on PCIE interface needs deep knowledge of SERDES architecture, protocol layer knowledge of PCIE. Varanya was outstanding in this semester in terms of execution, debugs. He picked up things very fast and owned full gen4 PCIE platform qual by himself with little mentorship. His deep understanding of PCIE spec makes him very efficient in debugging problems. What we look for in interns: 1. Solid understanding of concepts related to post silicon productization and validation. This is typically lacking in college courses as they are mainly focused on pre-si ASIC design and verification 2. Basis grasp on programming language like Perl, general linux usage 3. Basic understanding of system architecture at system level. Name : Suresh Kumar Meesala Designation : Senior ASIC Engineer, HW-MemSys ASIC comments : Abhishek has worked on C based stimulus generator for Compressor and Decompressor IP in GPU ASIC for optimizing memory Bandwidth. He primarily worked on updating the existing stimulus generator as per requirements of the current chip related to interface data format and width changes as well as compression size/granularity and mixed compression changes for various flavors of the compressor and decompressor IP. He also worked on various generic enhancements to the stimulus generator. He did the brainstorming and came up with list of enhancements specific to some algorithms and implemented them. He worked on generalization of Functional Models (FMODs) corresponding to various flavors of the compressor to minimize the overhead for each flavour by defining common functions to be reused across flavors. Highlights of major achievements and outstanding student characteristics: In general, the progress is good. The assigned tasks are completed in time (described above) with required support. Abhishek is very keen on getting the assigned tasks done at the earliest, so that he can get started with something else. He ramped up pretty quickly on the Arch/algorithms and got fair understanding of the code to get started with execution. He adopted seamlessly with the changing requirements and phasing. Areas of Improvement: Needs to be more process-oriented than being task-oriented. Need to be more diligent and improve the ability to debug and fix issues more independently. With required guidance, he is observed to be getting much better regarding the above "areas of improvement". What do they look for in interns: Self-driven

Company	Experience	Year

and possess the ability and enthusiasm to learn and contribute. Name : Pavan Kumar Yakamuri Designation : Pavan Kumar Yakamuri comments : Work Done: • Ramp-up included understanding of IP features, APB and AXI protocols, basics of UVM and coverage • Major work done o Setup cron job to run coverage on regular basis and merge coverage across runs o Analysis of coverage holes and updation of stimulus to improve coverage o Write functional coverage for few new features Students' Characteristics: • Enthusiastic and fast learner • Understands the features/ intent before executing • Fast execution We typically look for basic coding skills, right learning attitude, good communication skills. Name : Rimu Kaushal Designation : Principal Verification Engineer, CPU comments : - Work done by the PS-II students, interactions with them, Sankara worked as part of Team implementing Regression Scheduler. Regression Scheduler is algorithm-based Test and Test Parameter selection system for running regressions. Sankara was involved in implementing the framework with different components and mechanisms for interfacing these components. This also involved exploring different implementation options that allow the framework to co-exist with existing infrastructure for running regressions. - Highlights of major achievements, o Implemented the system which could get prototyped on active regressions. - Outstanding student characteristics, Ability to transform solution design spec to implementation with minimal oversight - What do they look for in interns (not exceeding 500 words) o Ability to learn and pick-up new concepts (Programming skills/algo/automation setups etc) o Ability to comprehend challenges and trade-offs for applicable solutions for given problem statement. Name : Vishwajit Reddy G Designation : Vishwajit Reddy G comments : Intern was assigned the task of developing a methodology for evaluation CDC/NA violations for an IOBIST RTL unit and generate valid waivers. BIST Stand-alone Environment: IOBIST RTL is generated in this stand-alone environment along with the associated modules like JTAG (IEEE 1149.1) modules, Data pattern generator and Verifier. Unit (IP) Environment: IOBIST module is instantiated along with IP interfaces in a simulation testbench environment. Initial task was to develop an automated waiver generation script which could read the CDC violations generated in the unit level env, it was achieved by developing a python script which generated waivers using standard rules like pseudo-static, false paths, status and so

Company	Experience	Year

on. Completion of this task involved understanding CDC paths, violation types and the tool used to identify CDC paths – Meridian Next task was to develop scripts in BIST stand-alone environment which can generate CDC/NA/Synthesis violations and waivers if needed, this is needed because It can help in identifying design issues early in the design flow with minimal turnaround time as compared to running CDC/NA/Synthesis in Unit (IP) level environment. Potential issues can be easily flagged in this environment by looking at the report. Intern was able to pull off this by reusing older trivial script which can be used to run synthesis, much more functionality was added to the script by the Intern which allowed for the flow to be clean. In order to do this Intern had to learn more about the design flow processes like NA/Synthesis and interact with host of people from different teams who owned or worked on these tools prior. During his internship intern was asked to provide a weekly report which was used to identify the progress of the internship task, it was provided on a timely basis with detailed schedule. This in turn helped in identifying the blocking issues and provide any additional support to the intern in order to accomplish his task. Characteristics Observed 1. Timely goals: Intern as able to achieve the goals in a timely fashion 2. Teamwork: Intern had very good teamwork skills which he had put to good use while discussing issues with other teammates. 3. Inquisitiveness: Intern had asked questions which are very important while developing a new flow instead of trying to work with whatever was provided initially. 4. Work Ethic: Intern had a good work ethic as observed from the rigorous work schedule followed by him to achieve the goals set as per requirement which varied from interface to interface. 5. Coding skills: Intern's coding skills were good as observed from the waiver script written by him without any help which had adequate debug hooks which are normally ignored but are very helpful in the development of the flow Summary Intern has performed well on his internship task of developing the methodology tool with impressive work ethic as expected from him. Name : Roshan Paul Designation : Senior Verification Engineer comments : Lohith was able to finish all the tasks assigned to him by understanding the problem statement, underlying concepts and solving the same. He was able to help in making testbench autoscale for a feature that typically changes across projects. This is one of the activities which really adds value to testbench long term. He was also able to help with a lot of other activities like

Company	Experience	Year
	reducing the build time of testbench using partition compile feature of VCS, Re-enabling safety package in testbench, creating a clock modelling class for a specific clock modelling purpose, some of the compartmentalization activities etc… Lohith got along with team very well and his knowledge in UVM/System Verilog helped in a quick ramp up. He is consistent and unblocks himself by asking the questions without hesitation. He spends time at his end to understand a concept and asks doubts which helps in speeding up overall grasping of concepts. He showed enthusiasm and asked for more tasks to work in parallel with his main task. Comments: Expectations from industry : 1) NVIDIA Graphics Hardware, Bengaluru The Hardware division of NVIDIA Graphics, Bengaluru deals with architecture, design, development and verification work related to GPUs and SoCs of NVIDIA. The work requires expertise in Digital Design, VLSI Design, Architecture Modelling of chips, Synthesis, Low Power Design, Circuit Design and Place and Route of complex VLSI chips. A large chunk of the work at each stage of the Chip involve Verification and Validation. Since the complexity is very large, entire design and verification process require a lot of automation. Hence such a work demands expertise in various scripting languages like Unix Shell Scripting, Perl, Python and Tcl/Tk. Programming languages like Verilog, System Verilog, System C and C++ are necessary for design and verification of such complex circuits. Knowledge of Computer Architecture is essential for working in NVIDIA chips. Of course it is known that the interns may not have expertise in all of the mentioned topics. But it is expected that the interns should be fairly good in on Digital Design, Computer Architecture, Microprocessors, Verilog, Unix Shell Scripting, C++ etc. Knowledge on Python, Perl, Tcl/Tk, System Verilog, System C, Low Power VLSI design will definitely reduce the ramp-up time. Moreover enthusiasm to learn, faster ramp-up. proactiveness, a positive attitude are must have qualities required for the industry. 2) NVIDIA Graphics Software, Bengaluru The Software division of NVIDIA Graphics, Bengaluru deals with architecture, design, development and verification work related to the software solutions for Automotive based on NVIDIA chips. The work requires expertise in C & C++ programming, Operating System, Linux internals, Build systems, Computer Graphics and Multimedia, Machine Learning and Deep Learning. Since the complexity is very large, entire design and verification process require a lot of automation. Hence such a work	

Company	Experience	Year
	demands expertise in various scripting languages like Unix Shell Scripting, Python etc. Knowledge of Computer Architecture is also essential. Knowledge of good coding practices, adherence to associated standards and software engineering processes are necessary for building large and complex software like the ones this team develops. Moreover enthusiasm to learn, faster ramp-up. proactiveness, a positive attitude are must have qualities required for the industry. NVIDIA Authorities are quite helpful supportive in integrating the student interns into the mainstream activities. The interns work on live projects of NVIDIA and they often interact with the teams located across globe. Indeed it is a great opportunity for an intern to work in NVIDIA Bengaluru (both Hardware and Software divisions).	
Nvidia Graphics - Hardware , Bangalore	I was assigned to HW-Soc_Verif Team.My work as an intern was to verify the connections of PADRING IP and Write functional coverage and modify tests for Logic Analyzer block.Lot of scripting was done to automate the formal connectivity flow required for PADRING IP verification.Understanding of LA architecture, UVM concepts to modify the test bench was also done.System Verilog's Cover groups was used to capture the functional coverage . Tool used (Development tools - H/w, S/w) : Jasper,VCS,Linux,System Verilog Objectives of the project : Verify connectivity of PADRING IP and functional coverage of LA Major Learning Outcomes : UVM concepts.Understanding LA architecture Details of Papers/patents : None Brief Description of working environment, expectations from the company : Work environment is not at all stressful but we have to show our deliverables every week and have one on ones with mentors almost daily.The teams and employees are very open and can be pinged anytime to help us out if we are struck. Academic courses relevant to the project : FPGA lab,Digital design,Computer architecture	2018-19-sem2

Company	Experience	Year
Nvidia Graphics - Hardware , Bangalore	The debug process, as a part of the RTL design flow, goes through fixed steps of creating a wave dump, viewing the waveforms and identifying bugs in the transaction. Developed a tool for tracking transactions through memory management unit for automating the debug process. Developed an algorithm of tracking, and an implementation in Perl. Tool used (Development tools - H/w, S/w) : System Verilog, Perl, Unix, some tools proprietary to the organization Objectives of the project : To automate the debug process for a RTL design by parsing through waveform dumps, in particular, for the Memory Management Unit (MMU). Major Learning Outcomes : Understanding of memory virtualization and MMUs, Perl, System Verilog, RTL Design Build Flows Details of Papers/patents : N.A. Brief Description of working environment, expectations from the company : Very flexible and open working environment. Not just my manager and mentor, the entire team was very approachable for any problems or doubts. One markedly positive aspect was that one is encouraged to think of the smallest of tasks they do in context of the bigger picture as to why it is required for the team or for the chip being designed. Every task gets done efficiently and in the best possible way when this is known. Academic courses relevant to the project : Digital Design, Computer Architecture	2018-19-sem2

Company	Experience	Year
Nvidia Graphics - Hardware , Bangalore	My main work is basically verification of compression IP , using a C++ environment.The current chip already had the correct code ready, I had to modify the code for upcoming chip. Before beginning with project , I had to read the theory about overall GPU and get some idea with tools like perforce etc. First I had to understand the design specifications and differences between current and upcoming model. Second I had to understand the existing code and identify the parts which will remain same and which has to change. Third I had to implement the change in the code in phases ,and each phase I had to correct the compilation errors and then run tests and debug the faults in code. Apart from these I had other general tasks like enhancing the data generating functions Tool used (Development tools - H/w, S/w) : Perforce Objectives of the project : Modification of verification code for upcoming chip Major Learning Outcomes : Learnt to Debug code. Got acquainted with the corporate work culture Details of Papers/patents : Brief Description of working environment, expectations from the company : Nvidia's working environment is excellent , employees are friendly and helpful with the interns. The mentor is very patient in explaining the project related details and also other general doubts related to tools. I got to learn new algorithms which are unique to organisation and cannot be found in the books. The work also is challenging and as per the expectation, at times it gets monotonous but overall the work is good and enjoyable. It is a good learning experience, especially for me handling large blocks of code distributed over multiple files and debugging the errors in them is really challenging and good learning experience. Apart from this company's transport service and food are also very good. Academic courses relevant to the project : C-Programming , Digital Electronics	2018-19-sem2

Company	Experience	Year
Nvidia Graphics - Hardware , Bangalore	My project deals with working on a tool that generates NA/CDC waivers for IOBIST related waivers and to arrive at a list of standard waivers for the IOBIST that can be reused in future designs and to write tools that can be used to run CDC and NA on RTL generated if required Tool used (Development tools - H/w, S/w) : Python, Meridian CDC, Perl, Design Compiler Objectives of the project : To arrive at standard NA/CDC waivers for IOBIST and to produce tools to run CDC and NA on RTL generated Major Learning Outcomes : Learnt about DFT, CDC and NA; working on methodology projects Details of Papers/patents : - Brief Description of working environment, expectations from the company : The working environment is pretty relaxed and helps you be productive. There are no fixed working hours, you are free to work whenever you want as long as you can finish your work. There are explicit expectations from the company except probably basic background knowledge on relevant subjects and willingness to pick up specific skills required for the project Academic courses relevant to the project : ADVD	2018-19-sem2
Nvidia Graphics - Hardware , Bangalore	Worked in Physical design team. Have to anlayse timing issues, fix DRC's. Tool used (Development tools - H/w, S/w) : Synopsis -ICC2, Cadence - Innovus Objectives of the project : Layout design from netlist to GDS for a GPU Major Learning Outcomes : Understood the real time implications and difficulties faced by a chip designer Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment- friendly and everyone is willing to help Academic courses relevant to the project : Analog and Digital VLSI Design, Digital Design	2018-19-sem2

Company	Experience	Year
Nvidia Graphics - Hardware , Bangalore	The project is based on the Memory Sub Systems (MSS) Verification. The methodology followed in the project was firstly the basic rampup study based on Perl, System Verilog programming and understanding UVM (Universal Verification Methodology) primarily used in designing testbench. A basic understanding of Perforce and Unix was required to carry out day to day activities. A Perl script was developed which parses through the log files to get register addresses for some specific read and write operations and print them in a separate file. Another project deals with scaling the testbench. There is a lot of code reuse when the architecture changes from one generation to another, instead of copy pasting the code, it is advised to make the code autoflow across generations. A Cron Job was setup to build and launch tests on a specific testbench regularly and monitor its behavior with regular changes being made to the testbench. Partition Compile was implemented to bring down the compile time. Tool used (Development tools - H/w, S/w) : Perforce, Unix, Synopsys VCS, Verdi, DVE Objectives of the project : Tegra Memory Sub Systems Verification Major Learning Outcomes : Added new technical skills like SystemVerilog, UVM, Perl/Shell Scripting, Memory Access, Constrained Random Verification. Details of Papers/patents : None Brief Description of working environment, expectations from the company : The working environment was good. The work given was challenging at times, teammates were very helpful. Regular interactions and meetings with mentor and manager respectively helped me understand my role significantly and also improve upon the work assigned to me. The company expects us to learn things quickly and ready to take up tough tasks, also be creative with solutions one comes up with. Academic courses relevant to the project : Computer Architecture, FPGA Based Design Lab	2018-19-sem2
Nvidia Graphics - Hardware , Bangalore	During the ramp-up certain tasks were given, like writing Verilog code for Round Robin arbiter, synchronous RAM and asynchronous RAM and then proceeding on the steps of verification, the various components of testbench like agents (sequencer, monitor and driver), scoreboard and virtual interface for ports for the same DUT were written using System Verilog with UVM methodology. A perl script was developed that checks the address range of slaves in two files given by two different teams, which will determine correctness of the address range. The file output of the script is an xls file which contains all the slave name which matched	2018-19-sem2

Company	Experience	Year
	and mismatched. The main objective of this project was to do write, run and analyse functional coverage. Functional coverage for various sub blocks were also written as part of the project. In order to run coverage, various Synopsys Manual were referred for the arguments required to run coverage. The analysis done for running coverage was documented in a Confluence page. Compliance coverage of various cluster fabric were analysed. The Functional coverage analysis increases the verification efficiency enabling the verification engineer to isolate the areas of un-tested function. During the analysis of the coverage, certain untested functions were noted and for those cases extra test run were written. CRON jobs were scheduled to run regressions with coverage enabled, merge coverage databases and generate coverage report, which reduces the workload. Tool used (Development tools - H/w, S/w) : Synopsys Verdi, Synopsys VCS, Synopsys URG Objectives of the project : The major objective of this project was to write, run and analyse functional coverage. Major Learning Outcomes : 1. Thorough Knowledge of Perl, System Verilog with UVM. 2. Got to know about the thought process of an Verification Engineer in developing testplan of an SOC. Details of Papers/patents : Brief Description of working environment, expectations from the company : My internship at Nvidia as part of Practice School II program was a great learning opportunity to me as an engineer. The skills I gained from the internship here at Nvidia will helped me throughout my career. Nvidia provides a lot of training at the start of the internship which help a lot during the ramp-up. Their working culture makes it easy to transition from academic to office environment. They have a good system that provide continuous feedback of the work we are working on. They have various fun activities planned during the internship. All the HRs are very friendly and are very eager to help during any problem. Academic courses relevant to the project : Digital Design, Computer Architecture, Analog & Digital VLSI Design, Embedded Systems Design	

Company	Experience	Year
Nvidia Graphics - Hardware , Bangalore	Objective was to develop a tool that tracks a transaction as it moves through various interfaces within the Memory Management Unit (MMU) and track dynamically allocated resources in order to identify the timestamp and critical attributes that relay valuable information about the transaction. Tool used (Development tools - H/w, S/w) : Perl, Verilog, Synopsys(Verdi), UNIX Objectives of the project : To accelerate the debug process, in particular, for the Memory Management Unit (MMU) Major Learning Outcomes : Software and Tools: Familiarity with UNIX work environment, Perforce, Perl, Verilog, Nvidia specific wraps over Verilog, Verdi (Synopsys) and related utilities. Concepts: Understanding of memory management concepts, Memory Management Unit (MMU): architecture and function, RTL structures, flow of data, protocols and interfaces of the MMU, architecture and functioning of the Memory Sub-System (MSS), Child and Parent processes, piping: basics of operating systems Miscellaneous: Properietary/company specific tools and design flows. Details of Papers/patents : N.A. Brief Description of working environment, expectations from the company : Not only the mentor and manager, but the whole team was extremely approachable and helpful. Offers a lot of flexibility and still gets work done. Great working environment and support from a logistics and HR point of view as well. Academic courses relevant to the project : Digital Design, Computer Architecture	2018-19-sem2

Company	Experience	Year
Nvidia Graphics - Hardware , Bangalore	My work involves memory validation in the post silicon validation group. My project involved validation of GDDR6 memory. Memory Qualification being the penultimate step before productization the memory interface between the GPU and the DRAM needs to be tested across all PVT corners to meet the performance requirements. To ensure this the memory settings and the timing parameters between the memory controller and the frame buffer need to be synchronized. To test this some predefined tests are run and the results examined. The overall goal of the qual is to have the GPU ready for productization without any bugs unresolved Tool used (Development tools - H/w, S/w) : Shell Scripting, Java Script, C programming , Verilog Objectives of the project : Validation of memory interface of the GPU and DRAM Major Learning Outcomes : Validation Procedure for validatiton of DRAM memory Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Analog and Digital VLSI Design, Computer Architecture	2018-19-sem2

Company	Experience	Year
Nvidia Graphics - Hardware , Bangalore	The project "Functional safety tools for Automotive Systems" is a sub part of a larger project whose goal is to ensure automation of processes required for meeting automotive functional safety (ASIL-Automotive Safety Integrity Level) levels for the circuits of chips used in autonomous cars. The main challenge is maintaining the traceability, reproducibility, reliability and robustness of the functional safety mechanisms and tests used to do the diagnostic analysis of the circuits and back annotating the data as and when required to the vc-fsm server. The methodology being followed in the project is the basic ramp-up study based on Python, Perl, SQLite and understanding functional safety tools, fault injection, and FMEDA (Failure modes, effects and diagnostic analysis). This has been followed by involvement in programming tasks to accomplish traceability, maintenance and archival of simulation results, and testing and maintenance of the implemented workflow. Tool used (Development tools - H/w, S/w) : JIRA, Perforce, Python, Perl Objectives of the project : To develop, test and maintain a functional safety tool for back annotating simulation results of fault injection Major Learning Outcomes : Professional - 1) Improved communication and presentation skills 2) Had an experience of working in an objective oriented team environment and deadline based work completion Technical - 1) Learnt new languages - Python, Perl 2) Basics of fault injection and functional safety tools Details of Papers/patents : NA Brief Description of working environment, expectations from the company : The working environment is very good and work-life balance is pretty satisfactory. The employees and managers are friendly, very approachable regarding any queries. Curiosity is encouraged. Overall I found Nvidia Bangalore to be one of the best places to work at. Academic courses relevant to the project : C Programming, OOP, DSA	2018-19-sem2

Company	Experience	Year
Nvidia Graphics - Hardware , Bangalore	Python is required for the Power Estimation tool as backend code is written in Python and frontend in Excel. Input packets are generated and sent to the server and the output obtained is verified using alternate calculation. First project was the input sanity check for leakage power, it involved sorting of acquired data, calculating parameters and plotting graphs for determining the leakage power for inter process scaling. Second project focused on calculating the leakage power after power gating some of the inactive processing units. Power and energy consumption is an important aspect and has to be respected during the development process of chip. Trade-offs have to be made between the power consumption and the performance when designing the architectures. Tool used (Development tools - H/w, S/w) : Python ,Excel, Unix Objectives of the project : To develop optimization algorithms to improve Performance/Watt, get an understanding of the Power Estimation Tool features and improve verification infrastructure for the Power Architecture backend. Major Learning Outcomes : Power estimation , mathematical modelling and optimization algorithms Details of Papers/patents : - Brief Description of working environment, expectations from the company : Excellent work culture, flexible hours, great place to work. Pioneering and cutting edge work, conducive learning environment. Academic courses relevant to the project : Analog and Digital VLSI Design, computer architecture, DSA, Computer programming basics	2018-19-sem2

Company	Experience	Year
Nvidia Graphics - Hardware , Bangalore	The project is about C based stimulus generator for Compressor and Decompressor IP in GPU ASIC for optimizing memory Bandwidth. Primarily focusing on updating the existing stimulus generator as per requirements of the current chip related to interface data format and width changes as well as compression size/granularity and mixed compression changes for various flavors of the compressor and decompressor IP. Secondly added various generic enhancements to the stimulus generator and implemented them. Also generalized the Functional Models (FMODs) corresponding to various flavors of the compressor to minimize the overhead for each flavor by defining common functions to be reused across flavors. Tool used (Development tools - H/w, S/w) : Perforce Objectives of the project : The final aim of this project is to modify the code of Generator i.e. the code which is used for verification of compression IP, to fit the new upcoming chip. Major Learning Outcomes : Handling large blocks of codes and debugging them Details of Papers/patents : Brief Description of working environment, expectations from the company : The environment here at Nvidia is very good, every employee is very helping and approachable which is very essential for an intern. Apart from technical skills, one can learn many soft-skills , like one to one interaction , team work and etc. The company has already provided the interns the best that a company should, like cab-facility, free lunch and first 15 days accommodation. Academic courses relevant to the project : C programming , Digital Design	2018-19-sem2

Company	Experience	Year
Nvidia Graphics - Hardware , Bangalore	-> Studied about the functionality of Nvidia's High Speed PHY (a component on an ASIC which contains high-speed communication protocols such as USB, PCIE, SATA, etc.) and its components. -> Made the Nvidia's High Speed PHY compatible with FPGA by removing the nonsynthesizable modules as well the analog components and at the same time, preserved the modules necessary for register configuration. -> Understood Protocompiler's multi-FPGA Flow. -> Verified the changes in Simulations -> Verified the changes in Lab. Tool used (Development tools - H/w, S/w) : Synopsys HAPS Protocompiler, Perforce, UNIX Objectives of the project : To make Nvidia's High-Speed PHY synthesizable by removing nonsynthesizable code and the code which is not needed for the register configuration, so that it can be made compatible with System FPGA and Emulation. Major Learning Outcomes : -> FPGA Prototyping concepts. -> System Verilog -> Perl (Basic) -> Understood System FPGA synthesis flow. -> Perforce - For file handling and sharing. -> UNIX commands. Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment of the company is quite good. The team members are very supportive and they help you in every way possible. The Work-From-home facility is the one that impressed me a lot. Nvidia doesn't force its employees to stay in the office for a minimum number of hours. Rather, it only focuses on the work assigned to its employees. As long as your work is complete, you can work from home or from office. During my tenure, the company has the hiring freeze and hence most of the students did not get PPO. So, my advice to the future batches would be to keep looking for off-campus opportunities and not depend entirely on the expectation of PPO. Academic courses relevant to the project : Digital Design, Computer Architecture, Analog Electronic, C Programming	2018-19-sem2

Company	Experience	Year
Nvidia Graphics - Hardware , Bangalore	This report discusses the various tasks CPU verification team works on. It starts with the basic understanding of CPU and its terminologies, then the motivation and methodology behind improving bootrom verification and then the various tasks worked upon including optimization in the duration of different tests using save restore technique, triaging failed regressions and writing Python scripts. It also delves into verification of the data transfer pathway from different I/O devices to SYSRAM/AOTZRAM. It discusses VCS save and restore feature for tests which decreases the test run times drastically. Tool used (Development tools - H/w, S/w) : Perl, Python, C++, System Verilog Objectives of the project : Improving the efficiency of BOOTROM verification Major Learning Outcomes : Perl, Python, C++, System Verilog Details of Papers/patents : None yet Brief Description of working environment, expectations from the company : The working environment was great. Academic courses relevant to the project : Digital Design	2018-19-sem2
Nvidia Graphics - Hardware , Bangalore	The work that has been done delves specifically into CPU, Boot Architecture and the ways to optimize software and hardware verification. In general terms, booting is starting up a computer or a computer appliance until it can be used. It can be initiated from hardware or software by a button press or by a command. The report then discusses about triaging regressions and how to go about it. VCS save and restore feature for tests which decreases the test run times drastically. Tool used (Development tools - H/w, S/w) : Linux, Gverdi, PyCHram Objectives of the project : Optimization of bootrom harware and software verifcation, basically increasing the efficiency as well as adding verification tests for a SOC Major Learning Outcomes : Python,shell scripting, waves debugging, UVM Phasing Details of Papers/patents : none Brief Description of working environment, expectations from the company : Work enviornment is one of the best in NVIDIA, horizontal structure is the best part. and almost everyone in the team is like a family. Academic courses relevant to the project : Microprocessor, test and testability of VLSI. But there is a need to add a course specifically for verification part because it'll be helpful in the industry, and no existing compulsory course that comes close to it.	2018-19-sem2

Company	Experience	Year
Nvidia Graphics - Hardware , Bangalore	My project work is on formal verification and functional coverage. In formal verification, the connectivity of pad and corresponding register is extracted from specification using perl scripting and is verifed on design using jasper gold tool. In functional coverage, the coverage of a particular sub system is analysed and changes have been made according to test plan. the un-hit bins were analysed and suitable changes were made to tests for covering the bins. Tool used (Development tools - H/w, S/w) : Jasper Gold (Cadence tool), Verdi (Synopsys tool) Objectives of the project : Formal verification and Functional Coverage of design Major Learning Outcomes : Perl, System verilog, Coverage, Formal verification Details of Papers/patents : Brief Description of working environment, expectations from the company : Nvidia is one of the few companies where the intern is given equal importance as an employee. The work environment is fun reminding me of the phrase - play way working. (like play way learning) I enjoyed the work to the point that I felt bored during weekends. Regarding expectations from company, perl scripting is essential. They don't expect you to know all the skills beforehand but how fast you can learn new skills matters. Academic courses relevant to the project : Digital Design, FPGA, Computer Architecture	2018-19-sem2

Company	Experience	Year
Nvidia Graphics - Hardware , Bangalore	I worked as a part of PCIe Design Verification team. I was involved with working on different components of UVM testbench which is used to verify PCIe Bus Protocol. The work involved sanitizing the PCIe Transaction Layer Checker by running regressions and debugging the failures encountered using verdi and fix the issues that I can or assign to someone in the team who can fix those. The next part of the project involved developing functional coverage for the PCIe Data Link Layer to make sure 100% coverage is reported. Then I worked on developed few Perl scripts to automate the verification workflow. In the end, I cleaned up all the warnings of the testbench and made sure in the future nobody can check-in any code which can throw compile-time warnings. Tool used (Development tools - H/w, S/w) : System Verilog, UVM, Perl and Verdi. Objectives of the project : My main objective of the project was to sanitize the checker in testbench and developing functional coverage. Major Learning Outcomes : Understanding of the UVM testbench structure, development of components in the testbench such as checkers, coverage collectors and Perl scripts to automate verification flow. Details of Papers/patents : Brief Description of working environment, expectations from the company : Nvidia has a very organized working environment. My mentor and team members were always approachable, helpful and always clarified any issues being faced. Office timings are flexible and Foosball and Table Tennis are available for recreation. There were team meetings once in a week which kept me updated about other team members' work and also helped in getting constructive feedback about my work progress. Overall, the internship at Nvidia was a enriching experience and adds weight to the resume. Academic courses relevant to the project : None	2018-19-sem2

Company	Experience	Year
Nvidia Graphics - Hardware , Bangalore	The project deals with familiarizing with the industry standard PCIe , its general understanding of transfer of different type of packets , familiarizing and understanding of different layers in PCIe, particularly physical layer. The initial tasks involved understanding of verilog and perl concepts and spyglass clean of files by padding appropriate bits. The work involved conversion from two symbol mode to four symbol mode of transmit block of physical layer of PCIe. RTL coding was done for transmit block , as defined by PCIe specifications, which consisted of data scrambler, 128b/130b encoder and 128b sequence generator. Tool used (Development tools - H/w, S/w) : Synopsys VCS , Verdi , VIVA Objectives of the project : To understand about PCIe specifications and be able to do RTL coding based on given specifications. Major Learning Outcomes : An overall understanding of PCIe especially Physical layer and learning of Perl scripting , debugging and verilog coding skills. Details of Papers/patents : Conversion from two symbol mode to four symbol mode in Transmit Block of Physical layer of PCIe. Brief Description of working environment, expectations from the company : The work culture is the best that i experienced. I had to give more than 10 team presentations during my tenure of internship along with regular syncup with Mentor and Manager. My team was very supportive and helping and they took their time out of their busy schedule to help me having my critical thinking skills being developed. I personally acquired some of the important qualities like patience, discipline, and being responsible for your work. Academic courses relevant to the project : FPGA, Digital Electronics , Analog and Digital Design , Computer Architectiure	2018-19-sem2
Nvidia Graphics - Hardware , Bangalore	Fault simulation of IO-Pads for GPU chip Tool used (Development tools - H/w, S/w) : VCS, ZOIX. (HW) Objectives of the project : To deliver fault and test coverage for different interfaces of IO-pad Major Learning Outcomes : Structure of the tests and IO-pad, Got to know about fault simulation tool ZOIX. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Digital Design	2018-19-sem2

Company	Experience	Year
Nvidia Graphics - Hardware , Bangalore	Worked on conversion from 2 symbop mode to 4 symbol mode in Transmit lane block of Physical layer of PCIe Tool used (Development tools - H/w, S/w) : Perl, Verilog Objectives of the project : To learn about PCIe specifications and to do RTL coding based on it. Major Learning Outcomes : RTL Coding, PCIe specifications Details of Papers/patents : Brief Description of working environment, expectations from the company : Work culture is awesome. Team members are very helpful and helped in developing critical thinking skills. Academic courses relevant to the project : FPGA	2018-19-sem2
Nvidia Graphics - Hardware , Bangalore	Mentor Mentor comments: Major tasks done: 1.Create infrastructure for analyser and self-checking tests to verify the infrastructure 2.Building infrastructure for Performance monitor testing Along which them Kuleen help with some minor tasks as well to offload some team members Below are some of the key characteristics we saw over the course of the internship and some of the criteria's we used to gauge the intern • Improvement over the time, Kuleen has improved and showed that he can work independently over the course of internship • Proactive and asks relevant questions to understand the bigger picture of the assigned task and how it contributes to the project • Maintains detailed notes on tasks and takes feedback once tasks are done to improve on things • Motivated to finish assigned tasks on or before time • There were few instances where he showed out of the box thinking to come up with smart solutions to the problems faces • The tasks were completed on or before time with good quality • Showed good communication and understanding skill while learning about the assigned tasks by asking relevant questions. Was able to communicate what he is trying to do when getting help from other team members Mentor comments: Siddharth work on coherent interconnect verification during his internship in Nvidia. Siddharth quick to ramp up on Nvidia verification methodologies, showed a lot of interest in understanding the design functionality. Some of his achievements were : • He came up with a flow/process to measure the testbench performance. • Worked on stimulus development for verifying a coherent 2D mesh network • Coded a checker in SystemVerilog/UVM for an ordering block. Things which we look in interns: • A keen interest to develop better understanding the Hardware design and verification methodologies. • Sound basics in computer architecture, exposure to CPU pipelining, caching & coherency, paging concepts will help. • Some basic exposure to Verilog and	2019-20-sem2

Company	Experience	Year
	System Verilog. • Good problem solving skills. Mentor comments: Pratyush was a good intern hire for Nvidia. He has good understanding and learning and debugging skills. He was assigned the task of primarily coming up with a quasi automation tool which would reduce the overall "man-hours" associated with regular tasks in our team. He understood the problem statement very well, had inquisitive interactions with us and gained knowledge about what are the finer details of our tasks and came up with the tool which fits the bill very well. We at Nvidia broadly look at interns with "fresh mindset" coming directly out of college and must be open to learn new technical topics and "ramp up" to the industry work culture. Pratyush is self-motivated and strives for task completion. He has all the qualities that is required to be successful in hardware or software industry. Brief write-up on PS-II station : The Hardware division of NVIDIA Graphics, Bengaluru deals with architecture, design, development and verification work related to GPUs and SoCs of NVIDIA. The work requires expertise in Digital Design, VLSI Design, Architecture Modelling of chips, Synthesis, Low Power Design, Circuit Design and Place and Route of complex VLSI chips. A large chunk of the work at each stage of the Chip involve Verification and Validation. Since the complexity is very large, entire design and verification process require a lot of automation. Hence such a work demands expertise in various scripting languages like Unix Shell Scripting, Perl, Python and Tcl/Tk. Programming languages like Verilog, System Verilog, System C and C++ are necessary for design and verification of such complex circuits. Knowledge of Computer Architecture is essential for working in NVIDIA chips. Of course it is known that the interns may not have expertise in all of the mentioned topics. But it is expected that the interns should be fairly good in on Digital Design, Computer Architecture, Microprocessors, Verilog, Unix Shell Scripting, C++ etc. Knowledge on Python, Perl, Tcl/Tk, System Verilog, System C, Low Power VLSI design will definitely reduce the ramp-up time. Moreover enthusiasm to learn, faster ramp-up, proactiveness, a positive attitude are must have qualities required for the industry. NVIDIA Authorities are quite helpful supportive in integrating the student interns into the mainstream activities. The interns work on live projects of NVIDIA and they often interact with the teams located across globe. Indeed it is a great opportunity for an intern to work in NVIDIA Bengaluru (both Hardware and Software divisions).	

Company	Experience	Year
Nvidia Graphics - Hardware , Bangalore	Majorly the work done was to build TestBench and Verification infrastructure for RTL designs using UVM methodology and System Verilog Tool used (Development tools - H/w, S/w) : H/w:- UVM, System Verilog, Perforce, Unix Objectives of the project : To Verify RTL design of MSS NVlink unit Major Learning Outcomes : Flow of UVM methodology, Understanding of System Verilog, Debugging techniques and tools like Verdi, Perforce, Flow of code and interfaces in NVIDIA Details of Papers/patents : None Brief Description of working environment, expectations from the company : Working environment was worthy of the company's status. My team, including manager and mentor were helpful throughout. Their was ample focus on understanding concepts and then applying them. Even, there were enough recreational activities to balance work culture. Academic courses relevant to the project : Computer Architecture, Operating Systems, Digital Design, ADVD	2019-20-sem2
Nvidia Graphics - Hardware , Bangalore	Tool used (Development tools - H/w, S/w) : Linux, Python, Perforce, Confluence, MS Office Objectives of the project : GPU Performance Verification Major Learning Outcomes : Learnt how does corporates carry out the work, level of professionalism, a more interactive way of approach to problems and new methods. The primary job at NVIDIA was to work with the performance verification team. It mostly comprised of running various … Details of Papers/patents : Brief Description of working environment, expectations from the company : The working culture is very good. The colleagues are very supportive and willing to teach. The hierarchy is very structured and the treatment and respect is the same for an intern as well as the directors. The working hours are flexible too. Academic courses relevant to the project : Computer Architecture, Microprocessors and Interfacing, Programming, Optimization	2019-20-sem2

Company	Experience	Year
Nvidia Graphics - Hardware , Bangalore	The project involves redesign of the PCIe iLA Configuration tool, and creating a class for the code-base to facilitate reusability for other tools through inheritance. The primary aims for creating a new tool are two-fold: providing an intuitive, user-friendly interface for the engineer, and improving maintainability by making it easier for developers to support future releases. This was done by implementing principles of Object Oriented Programming, cleaning up the existing code-base and writing new code wherever necessary Tool used (Development tools - H/w, S/w) : Python 3, Bash, Confluence, Perforce, VHDL Objectives of the project : Design of GUI Based Tool Major Learning Outcomes : Python 3 Details of Papers/patents : None Brief Description of working environment, expectations from the company : The work culture at NVIDIA was very conducive for productivity. Everybody ranging from my manager to the HR department were always on hand for assistance. The working hours are flexible and there is regular feedback from authority figures to help you improve the quality of your work. The company didn't have any prior academic expectations. My manager gave me ample time to acquire the necessary skillset for my project. Academic courses relevant to the project : None	2019-20-sem2

Company	Experience	Year
Nvidia Graphics - Hardware , Bangalore	The idea behind this project is to design a serial communication interface between data converters (ADC, DAC) and logic devices (FPGA). Instead of generating the Register Transfer Level(RTL) using the traditional approach by handcoding the design in Hardware Descriptive languages, a popular methodology called High Level Synthesis is being used to do the same. This methodology uses C++ as the Design coding language and tools like Catapult Synthesis to convert the C++ code into HDL(Verilog) files. This reduces the effort of hand coding and the understanding of the design code becomes much easier. The Catapult Synthesis also checks for HLS coding violations and other errors in the design and generates an optimized RTL with a report containing the record of the entire synthesis process. Tool used (Development tools - H/w, S/w) : C++, Verilog, Catapult Synthesis, Tcl scripting Objectives of the project : To create RTL design of a serial data interface using High Level Synthesis and analyze the results and statistics Major Learning Outcomes : High Level Synthesis, Object Oriented Programming Details of Papers/patents : Brief Description of working environment, expectations from the company : Nvidia is one of the best companies in its domain and has a wide range of interesting projects. You will be treated as an employee and the projects provided will surely help boost your knowledge. People here are always willing to help you regardless of the complexity of the issue. The working environment is really great! Flexible timings, no unrealistic deadlines(but they do expect you to get good results), and the most important part, Free lunch and snacks!! Academic courses relevant to the project : Digital Design, Object Oriented Programming, MuP	2019-20-sem2
Nvidia Graphics - Software Systems , Pune	Mentor Name : Ranjith Babu Kannikara Designation : Senior Software Engineer, System Software comments : Shreeda was a good self-learner and self-starter during the period of internship. She was always able understand the concepts and follow what is needed from her, in the first explanation itself. Also, Shreeda could quickly adjust herself to the Team/organisation work culture and flow. She has shown exceptional commitment and interest in the work. Name : Jimit Raja Designation : Senior Software Engineer, SW-TEGRA comments : Nikhil worked on Classification and Qualification of Multimedia tools as required for functional safety of road vehicles of electronic systems as described in ISO26262 standard. As part of this task, he understood the use cases,	2018-19-sem2

Company	Experience	Year
	design of certain Multimedia applications related to Camera capture, NVIDIA™ Deep Learning Accelerator. He also wrote test cases for these applications and developed a test automation framework to generate reports and logs without manual intervention. Nikhil interacted well with his peers and managers and was able to communicate his problems and solutions well. He is a quick learner, thorough and consistent in timely execution of tasks. By the end of the internship, he acquired knowledge on Multimedia frameworks & was able to proceed write classification and qualification reports with minimal guidance. Right now he is working on Object Detection Trajectory calculation algorithm which will be useful in skew calculation / validation of objects detected in simulated camera capture video. Skill Rating: Understanding of the problem : Excellent Coding/Scripting : Excellent Debugging : Good Communication Presentation : Good : Needs Improvement Name : Harshraj Rao Designation : Sr. Engineering Manager, Automotive Software comments : Over the course of two PS-II semesters, Shubham took up work on development projects supporting Nvidia's Linux-Yocto and QNX Automotive SDKs. Shubham developed a good understanding of diverse opensource and proprietary OS frameworks, tools and processes. He also gained a good understanding of Functional Safety concepts and verification methods for safety software. He is a diligent learner, and demonstrated the essential quality expected of an engineer, a systematic approach to problem-solving. Shubham's contributions helped the team meet important deadlines in ongoing project, and are valued by his mentor/senior engineer and all team members. Name : Pooja Krishnamurthy Designation : Engineer, Automotive Platform Engineering (SW-TEGRA) comments : Snigdha has worked on the Automation of Unit testing for AUTOSAR Software Components compliant to automotive ISO26262 standards using VectorCAST/C++ and Jenkins tool. The major objective of this course work was to simplify the Unit testing activity for the developer and integrate continuous testing of the software components on a nightly build. Snigdha has successfully demonstrated the workflow of VectorCAST/C++ and documented the methods for the ease of the developer. In addition, multiple python scripts were written by her in this respect to simplify the tool usage which is appreciable. She has also integrated VectorCAST/C++ into Jenkins tool environment running on an Automated Test System(ATS) that has enabled the continuous testing of the latest code. Basic	

Company	Experience	Year
	subject knowledge and basic programming skills are the primary lookouts in Interns. Over and above this communication skills, ability to work independently, explore new things taught to them and to mingle with the team are some of the additional aspects. workflow of VectorCAST/C++ and documented the methods for the ease of the developer. In addition, multiple python scripts were written by her in this respect to simplify the tool usage which is appreciable. She has also integrated VectorCAST/C++ into Jenkins tool environment running on an Automated Test System(ATS) that has enabled the continuous testing of the latest code. Basic subject knowledge and basic programming skills are the primary lookouts in Interns. Over and above this communication skills, ability to work independently, explore new things taught to them and to mingle with the team are some of the additional aspects. Being strong with subject basics, Snigdha was quick in grasping the concepts of AUTOSAR and the project application which is commendable. The ability to independently find ways of simplifying tasks has been a highlight in Snigdha' s work at Nvidia. She is also a very good team player and her contribution to the project is significant. Name : Kirankumar Bobbu Designation : Systems Engineer comments : Comments on : Work done: Automation to create stress testing infra from existing sanity tools Communication: keen Listener, communicates orally bit fast but clear, presentation skills Excellent highlights of major achievements: Aggressive project driving capabilities. Proposed alternate solutions for improvisation Outstanding student characteristics: Good reasoning and questioning what do they look for in interns: skill to understand any new problem domain, embedded domain knowledge, python/c programming skills. Comments: Expectations from industry : 1) NVIDIA Graphics Hardware, Bengaluru The Hardware division of NVIDIA Graphics, Bengaluru deals with architecture, design, development and verification work related to GPUs and SoCs of NVIDIA. The work requires expertise in Digital Design, VLSI Design, Architecture Modelling of chips, Synthesis, Low Power Design, Circuit Design and Place and Route of complex VLSI chips. A large chunk of the work at each stage of the Chip involve Verification and Validation. Since the complexity is very large, entire design and verification process require a lot of automation. Hence such a work demands expertise in various scripting languages like Unix Shell Scripting, Perl, Python and Tcl/Tk. Programming languages like Verilog, System Verilog,	

Company	Experience	Year
	System C and C++ are necessary for design and verification of such complex circuits. Knowledge of Computer Architecture is essential for working in NVIDIA chips. Of course it is known that the interns may not have expertise in all of the mentioned topics. But it is expected that the interns should be fairly good in on Digital Design, Computer Architecture, Microprocessors, Verilog, Unix Shell Scripting, C++ etc. Knowledge on Python, Perl, Tcl/Tk, System Verilog, System C, Low Power VLSI design will definitely reduce the ramp-up time. Moreover enthusiasm to learn, faster ramp-up. proactiveness, a positive attitude are must have qualities required for the industry. 2) NVIDIA Graphics Software, Bengaluru The Software division of NVIDIA Graphics, Bengaluru deals with architecture, design, development and verification work related to the software solutions for Automotive based on NVIDIA chips. The work requires expertise in C & C++ programming, Operating System, Linux internals, Build systems, Computer Graphics and Multimedia, Machine Learning and Deep Learning. Since the complexity is very large, entire design and verification process require a lot of automation. Hence such a work demands expertise in various scripting languages like Unix Shell Scripting, Python etc. Knowledge of Computer Architecture is also essential. Knowledge of good coding practices, adherence to associated standards and software engineering processes are necessary for building large and complex software like the ones this team develops. Moreover enthusiasm to learn, faster ramp-up. proactiveness, a positive attitude are must have qualities required for the industry. NVIDIA Authorities are quite helpful supportive in integrating the student interns into the mainstream activities. The interns work on live projects of NVIDIA and they often interact with the teams located across globe. Indeed it is a great opportunity for an intern to work in NVIDIA Bengaluru (both Hardware and Software divisions).	
Nvidia Graphics - Software Systems , Pune	Power Consumption monitoring of the GPU Tool used (Development tools - H/w, S/w) : Automated Power Management System Objectives of the project : to check for inconsistency in power consumption Major Learning Outcomes : Data analysis Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : No relevance	2018-19-sem2

Company	Experience	Year
Nvidia Graphics - Software Systems , Pune	My work was primarily based on automating the testing frameworks used. Continuous integration is helpful for this automation. The scripts can be made cron jobs to make the testing process smooth. Tool used (Development tools - H/w, S/w) : Jenkins server Objectives of the project : Automating multimedia testing frameworks Major Learning Outcomes : Scripting using shell and python Details of Papers/patents : Brief Description of working environment, expectations from the company : Work environment is good in the sense that people are kind and helpful. Not very hectic schedule. Predefined work and decent(reasonable) expectations Academic courses relevant to the project : Data Structures and Algorithms, Digital Image Processing	2018-19-sem2
Nvidia Graphics -Software , Bangalore		2018-19-sem2

Company	Experience	Year
Nvidia Graphics -Software , Bangalore	Initial phase of the project involved taking up initial source code structure analysis of a NVIDIA QNX system-software component identified for PLC coverage and make modification to some of it's functional components. After MidSemester worked on building Nvidia's tegra image using Yocto & Genivi with taking specific requirements for kernel version and other components into account. Also made size optimization of 66% to one of the early booting image of Nvidia. Finally, worked on upgrading QT which is cross-development framework for GUI and merged it into Nvidia's current main branch. Tool used (Development tools - H/w, S/w) : Yocto, Docker, Git, Perforce, Source-trail, C, OS, Unity, CMock, FFF. Objectives of the project : Objective of the project was to get familiarized with various tools like docker, perforce, git, Yocto and to work on analyzing the source code of safety critical QNX BSP safety component identitfied for NVIDIA's PLC (Product Life Cycle) coverage by working on several unit testing based tools like Unity, CMock & FFF. Also to build Nvidia Specific root filesystem using build tool Yocto and gaining deeper knowledge into these tools by reading and debugging through various errors that were encountered. Major Learning Outcomes : Learnt about the Yocto's build process, Linux Shell scripting and also understanding embedded C programs and debugging them. Details of Papers/patents : Brief Description of working environment, expectations from the company : NVIDIA has a very supportive working environment wherein everyone has been very helpful whenever I approached them. We , as interns , were treated no differently than full time employees in terms of work as well as the way in which the team proceeds. I extremely enjoyed working on the project that was assigned to me. I learnt a lot during the course of the internship both on the software and hardware fronts. Also got to know about the software development process and life cycle here. It is an amazing place to learn and start your career as the projects are challenging but at the same time there is no spoonfeeding. Academic courses relevant to the project : Embedded Systems, Operating System, OOPS, C Programming	2018-19-sem2

Company	Experience	Year
Nvidia Graphics -Software , Bangalore	As a part of System Software Team, I was given a project on BOOT KPI Optimization for customer Automotive platforms whereby I was supposed to find the potential hotspots throughout various bootloader stages which are feasible for optimizations and present approaches to optimize the same. Overall, the project was openended and gave me a complete outlook of the bootloaders, drivers and operating systems in general. Tool used (Development tools - H/w, S/w) : S/W : C programming, Shell Scripting, Python, Objectives of the project : Boot KPI Optimization for Customer Automotive Platforms Major Learning Outcomes : Got a broader picture of bootloaders, drivers and operating systems in general. Details of Papers/patents : Brief Description of working environment, expectations from the company : Nvidia has a very comfortable working environment. If you are looking for a "chill" PS2 stations where you can interact with some of the best brains in OS industry and contribute to the best projects in embedded systems, graphics, and virtualization, Nvidia Software Bangalore is the place to be. Other perks : > No defined working hours (Work from home if you like) > Free food, snacks and cabs to office > Decent Stipend (35K) > Opportunities to get PPO (Nvidia never let go talent) > Chilled out the environment and best folks to hang out Academic courses relevant to the project : C programming, Operating Systems, DSA Apart from academic courses : having knowledge of GIT, Python, Shell is helpful	2018-19-sem2
Nvidia Graphics -Software , Bangalore	The project deals with the development of a configuration tool for the safety framework for the Autonomous Vehicle platform developed by Nvidia. Along with the generation of the configuration files, the tool also develops interface handlers to be used by various other applications to interact with the safety security framework. Tool used (Development tools - H/w, S/w) : Python Objectives of the project : Worked on developing a python tool for NVIDIA's safety framework for autonomous vehicles. Major Learning Outcomes : Python, C, Autonomous vehicles Details of Papers/patents : Brief Description of working environment, expectations from the company : Work environment is friendly and nice. The people are helpful and cooperative. Work life balance is well maintained. Academic courses relevant to the project : C-programming, Any course which needs Python	2018-19-sem2

Company	Experience	Year
Nvidia Graphics -Software , Bangalore	The project deals with the functional safety of the DLA component. It tries to make test application ISO-26262 compliant. DLA is a dedicated hardware component for deep learning inference operation. Its design has been developed keeping in mind the use of convolutional neural networks (CNNs) for object recognition in real time scenario.It also involved development of a framework for Tool-Qualification-Report Generation. This report is generated as a part of qualifying a tool to mark it as safe which can involve increased confidence from use, evaluation of tool development process, validation of the software tool or development in accordance with a safety standard.. Tool used (Development tools - H/w, S/w) : Python, C++, unittest Objectives of the project : To develop a tool for generating Tool Qualification Report. Major Learning Outcomes : Linux, Unittest Framework Details of Papers/patents : None Brief Description of working environment, expectations from the company : Teammates were really helpful and mentor was always there to help no matter how many times i asked him doubts. Academic courses relevant to the project : C Programming, DSA,	2018-19-sem2
Nvidia Graphics -Software , Bangalore	Used python to develop a safety network configuration tool which is used to configure sending and receiving commands across different layers of 3 layer safety supervision system which is a safety mechanism used in nvidia's self autonomous driving systems. Tool used (Development tools - H/w, S/w) : Python and json Objectives of the project : Development of a safety network configuration tool and a tool for stress testing Major Learning Outcomes : Python and software development life cycle Details of Papers/patents : None Brief Description of working environment, expectations from the company : Everything was great. Academic courses relevant to the project : None	2018-19-sem2
Nvidia Graphics -Software , Bangalore	Mentor Mentor comments: 1. What are the key results the intern has delivered? • Development and Porting of profiling and validation tools. • Familiarity with Python and C++. 2. What are the main strengths (skills & behaviour) demonstrated during this internship? • Attention to detail. -Properly understands why an experiment/task is being performed. • Confident and Assertive enough to get his doubts clarified immediately. -Has often chosen properly (in multiple instances) to when to try figure out stuff by himself vs. when to ask and learn quickly. • Diligent -Ability to perform related/follow-up activities(and not just blindly perform what was assigned). -Followed-up with folks from	2019-20-sem2

Company	Experience	Year
	other teams to get the necessary design-clarifications and code-reviews for his tasks. 3. What areas need improvement? • Competency in the following areas is not yet evaluated as the internship period did NOT cover extensive activities in these areas. -Fundamentals of Operating Systems and Embedded-Systems. -ARM architecture. Mentor comments: Work done: Safety certification for "verification tools used to verify QNX BSP". As part of this, all evidences are created for certification spanning from Requirement to verification of tool. He also worked on fixing Coverity issues in source. Highlights of major achievements: He was able to ramp up quickly by grasping embedded concepts. He also identified/fixed many bugs within tool and its design. Outstanding student characteristics: Keen listener and good understanding skills. Expectation from interns: Good analytical skills, C language skills, understanding of embedded Linux/QNX concepts. Brief write-up on PS-II station : The Software division of NVIDIA Graphics, Bengaluru deals with architecture, design, development and verification work related to the software solutions for Automotive based on NVIDIA chips. The work requires expertise in C & C++ programming, Operating System, Linux internals, Build systems, Computer Graphics and Multimedia, Machine Learning and Deep Learning. Since the complexity is very large, entire design and verification process require a lot of automation. Hence such a work demands expertise in various scripting languages like Unix Shell Scripting, Python etc. Knowledge of Computer Architecture is also essential. Knowledge of good coding practices, adherence to associated standards and software engineering processes are necessary for building large and complex software like the ones this team develops. Moreover enthusiasm to learn, faster ramp-up, proactiveness, a positive attitude are must have qualities required for the industry. NVIDIA Authorities are quite helpful supportive in integrating the student interns into the mainstream activities. The interns work on live projects of NVIDIA and they often interact with the teams located across globe. Indeed it is a great opportunity for an intern to work in NVIDIA Bengaluru (both Hardware and Software divisions).	

Company	Experience	Year
Nvidia Graphics -Software , Bangalore	Development, Testing and Documentation of 'CPU Clock Attribute Verification' and 'CPU Core Usage Statistics' tools using python programming language. Boot KPI data collection and analysis. Boot KPI optimization using experimental C/C++ code patches on source code. Tool used (Development tools - H/w, S/w) : Python (Modules: logging, pandas, matplotlib, OS etc), C, C++, Shell Scripting, Excel, Linux, Nvidia Soc Boards, phidget and other peripherals. Objectives of the project : Development, Testing and Documentation of python tools for 'CPU Clock Attribute Verification' and 'CPU Core Usage Statistics'. Boot KPI data collection and analysis. Boot KPI Optimization. Major Learning Outcomes : Operating Systems, Python, Linux. Details of Papers/patents : Brief Description of working environment, expectations from the company : Amazing work environment and ethic. Great mentor-ship and inclusion experience. Great interaction and learning opportunities. Academic courses relevant to the project : Operating system, Computer Programming, Object Oriented Programming.	2019-20-sem2
Nvidia Graphics -Software , Bangalore	I was expected to carry out profiling of various software tools used by Nvidia for testing of Tegra chiip which would enable them in increasing their market share and develop confidence in the tool produced. Tool used (Development tools - H/w, S/w) : Vecorcast, Squore Objectives of the project : Profiling Of Software Tools Major Learning Outcomes : Basic C language, shell scripting, Workings of softwaresVecorcast, Squore Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment is great at Nvidia. Academic courses relevant to the project : C programming, OS	2019-20-sem2

Company	Experience	Year
Nvidia Graphics -Software , Bangalore	The work mostly involved fixing violations of coding guidelines in embedded Automotive software. It involved scripting, C programming and using Static Analysis tools. Tool used (Development tools - H/w, S/w) : C programming language, Linux shell scripting, Static Analysis tool Objectives of the project : To conduct Static Analysis of the functional safety of automotive software Major Learning Outcomes : C programming basics, Linux scripting, operating systems Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment is good, with flexible working hours, subsidised breakfast, lunch and snacks, transport, etc provided. Work isn't very hectic, with team members willing to help interns in any way necessary. Academic courses relevant to the project : C programming, OS, Data Structures, Shell scripting	2019-20-sem2
OfBusiness , Gurgaon	Comments: Expectations from industry : Rivigo Services (Tech and Non Tech): Rivigo Services Pvt. Ltd., founded in 2014, is an Indian supply chain and logistics company that provide logistics services all across the country. The organization uses a unique relay model which puts them ahead of their competitors. Rivigo offers two roles as interns: Software developer and Business analyst Role. Interns in software development role are exposed to web development, full stack development, Android App development and maintenance. They get to work on latest technologies like Java Springs, Android, React, Redux, Node js and Python etc. Interns in Business analyst role are expected to product analysis, make live reports from data using SQL and Periscope and assist product managers to contribute to product vision. It involves surveying product requirements, verifying the viability of solution framework from various teams and preparing technical specifications for technical team. In technology division, organization prefers to hire students with excellent programming and problem solving skills. Students should have excellent communication skills and analytical ability for business analyst role. Oyo Rooms(Tech and Non Tech): OYO Rooms, commonly known as OYO, is India's largest hospitality company, consisting mainly of budget hotels. Oyo Rooms offers multiple profiles in technology, product management and business development. Interns in technology at Oyo rooms have worked on front end development, back end development, developed dashboards for pricing metrics, implemented elastic search and also involved in unit and integration testing. Technologies include	2018-19-sem2

Company	Experience	Year
	Hive, superset, Java, Maven, Ruby on rails and JUnit etc. Interns in business development are expected to maintain relation with channel partners and on board new properties. For tech role, organization prefers to have interns with excellent programming skills. For non tech roles like business development and product management, students should have good analytical skills and excellent communication skills. OfBusiness, Gurgaon: OfBusiness is technology driven start up that provides SME finance and SME business loans with flexible, hassle free and easy documentation. Organization offers profiles in software development. Interns have worked on web development, data preprocessing and character recognition to read captcha's using machine learning techniques. Technology stack includes python, java, tensor flow and keras etc. Organization look forward to hire interns who have sound knowledge of data structures and have excellent programming skills.	
OfBusiness , Gurgaon	There were two major projects and other small projects that were given to me. In my first project, I was in a team and our objective was to automatically verify the personal information given by the supplier and customer is right or not. For this, we had to make an API to call the government website and take information from there. To do so we had to bypass a captcha. To break the captcha we made a machine learning model to do so. The second one was to make a part of a web application to automatically make a graph of the company's transaction to map the connectivity between companies. Since oxyzo(a subsidiary company of OfBusiness) is an SME financing platform. So, to give loans to a company our processing team has to run a background check on the bank transaction of the company. This is a tedious process and requires a lot of time. So, to move this faster my project was to make this graph of the companies that are our customer or have a history of a certain type from that bank transactions. Tool used (Development tools - H/w, S/w) : Spring Mvc, java, neo4j, react, echarts, python, keras Objectives of the project : To make a network of companies to to make the loan processing easier Major Learning Outcomes : There were a lot of things that I learnt from working in OfBusiness. It includes software development, how to work in a team, how to manage my time in a better way and lot other little things. Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment of the company was very friendly and	2018-19-sem2

Company	Experience	Year
	supportive. Everybody was thrilled to help the person in need as I was the person that needed the help the most. As I was an intern hand everybody else had way more experience than that of me. It was a very open and supportive environment to work and everybody was ready to listen to new ideas other person had to give. They recognize the person that works hard and acknowledge their presence and are praised. They also put an emphasis on health, family, and environment. There were a lot of good opportunities that were given to me. I was given a good project despite having virtually no experience in the field. And was helped whenever I needed it. My expectation from the company was to give a good project for me to learn the tricks and trade of the industry and it was fulfilled. So, I was happy to work in OfBusiness it not only helped me to learn software development but also how to effectively work in a team and was fun to work here. Academic courses relevant to the project : Object Oriented Programming, Database Systems, Data Structure and Algorithms	
OfBusiness , Gurgaon		2019-20-sem2
OfBusiness , Gurgaon	Majority of work was to crawl tender data from government portals, which would be shown on the company's online portal. I also worked with the product team to formulate data for a new machine learning project. Tool used (Development tools - H/w, S/w) : JAVA, Redis, Excel, Spring Boot Objectives of the project : Make the company's online tender portal 'bidassist' a one stop solution to all the needs of the contractors. Major Learning Outcomes : Software Development, product development Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment is pretty laid back and there is no pressure or formalities. You can talk freely with your team and the CTO. Everyone in the company is serious about providing the best experience to the customers and expect the same from you. Odd Saturdays are working. Academic courses relevant to the project : OOP, DSA	2019-20-sem2

Company	Experience	Year
Opera Solutions, Noida	I interned at Opera Solutions during my PS-II. I worked here as a part of software team that develops custom data solutions for the clients. Past five months have been an amazing learning opportunity for me. I was introduced to various programming as well as operating systems concepts and was provided with a platform to implement those concepts. Major chunk of my project involved modifying a software solution to display the trip narrative for a popular airline company. For the implementation of the project, I had to learn various concepts of data manipulation framework developed by Opera and some basic knowledge of shared libraries and architecture of python language. Apart from this I also learnt various aspects of data processing specific to the software development side of data management. These data processing functionalities included filtering, deduping, joining, derivation, grouping, binning of data. As part of another task I have worked on managing the delta to support the existing production code. This task helped me become familiar with basics of the code developed for the entire project. It also introduced me to various development and data handling strategies. Apart from learning various software related concepts, I have also realized how working in industry is different from academic projects. In industry there is a lot of emphasis on correcting the corner cases associated with a given program. Also, the programs are subjected to large number of stress tests so as to make them as bug-proof and futurecompatible as possible. The programs are also reviewed by a large number of people to reduce possibility of bugs. Moreover, even while writing a program, a lot of emphasis is laid on making it easy to read, understand and manage. These kinds of programming practices are very typical to the industry. Practice School experience has also helped me become familiar with the required professional attitude and the working environment of private companies. I also got an opportunity to interact with and learn from many professionals who already have a lot of experience of working in industry. The constructive feedback from them has helped me in developing new skills as well as refining other skills. Hence Practice school has provided me ample opportunity to implement the techniques learnt in classroom as well as learn new concepts. I sincerely believe that due to this hands-on experience I am now better prepared for the future and experience gained here will help in smoother transition from academics.	2015-16-sem2

Company	Experience	Year
Opera Solutions, Noida	Practice School is the perfect opportunity to put all the theoretical knowledge to practical use. My experience has been a great learning experience. Opera Solutions is a cutting edge technology firm dealing with Data Analytics and Machine Learning Applications to diverse business domains like healthcare spend intelligence, banking, aviation etc. The company represents the right balance of technology and services in an intensely competitive yet healthy and nurturing environment. The experience became particularly rich because of a flat hierarchical structure, enjoyable work environment, supportive management and motivational peers. Even though the company is well established in the niche area of big data analytics and has a wide global imprint with a talented pool of employees, it continues to have a start up like culture encouraging independent entrepreneurial thought without compromising on accountability. The particular project on which I was staffed, involved working on C and R. This experience has indeed helped me in developing an in depth understanding of the corporate world and one cannot ask for a better start to one's career.	2015-16-sem2
Oracle Financial Services Software Ltd, Bangalore	I interned at Oracle Financial Software Services, Bangalore. I was part of the Limits & Collateral Management team under Oracle Banking Platform division of OFSS. So, I got an opportunity to work with diverse toold in testing like JUnit testing, Code Coverage, and SUnit testing. This really helped me expand my knowledge base and deal with different technologies. Most of the teams at OFSS OBP use Java as their programming language. So my java concepts became really better. I also got a chance to work on proprietary softwares of Oracle.The experience at OFSS was really great. I think I got a good exposure of the work culture in an IT company catering to IT needs of financial conglomerates. The seniors at OFSS were really helpful and put a lot of focus on basic technical concepts. As an intern, I was always asked if I was happy with the work given to me and I made sure I benefit from it. Overall, it is great place to learn without much work pressure put on you.	2015-16-sem2

Company	Experience	Year
Oracle Financial Services Software Ltd, Bangalore	In OFSS,I was part of the Oracle Financial Services Analytical Applications Infrastructure. Being a part of this I was exposed to a whole new concepts of Interface development,new concepts like metadata and was able to learn many tools which are specific to the organization. My knowledge in IT field is significantly increased when compared to the beginning of the PS. My work involved concepts of JAVA,JS,HTML and SQL, the project was R&D oriented, the goal was to upgrade and improve an existing product of OFSS. I got to understand IT culture, the sophistication of the organization, co-ordination between different teams to achieve something and team work. Senior employees in OFSS were very helpful and my mentor made sure I was in the right path of learning, he was very patient with me for the whole duration of PS as I had very weak basics in C.S topics. Work pressure was very minimal which made the whole experience comfortable for learning.	2015-16-sem2

Company	Experience	Year
Oracle Financial Services Software Ltd, Mumbai	My experience at Oracle Financial Services System has been a good learning experience and exposure to the technical world. I have been a part of the CLOUD team in the Research and Development department for the last 5 months where I developed a Cloud Installer that did an automated setup from scratch on any worker node so that Bank transactions could be done. This is the very first version of the installer and within few more months of work on this, it will be sold to the Banks. Languages like Ruby, Chef, Java, Unix and python scripting commands and DBMS query commands were required. I acquired the skill set onthe-go while working on the project and the CS subjects helped in building the base. I have worked on python installers and directly worked with the Oracle Database along with various Oracle proprietary softwares. One main thing that I learnt while interning is that google is your best friend. Along with the knowledge you get while studying for your base courses, while on the job, you should have a good habit of googling first and then asking for help. Luckily, my team was very supportive and taught me their technologies from scratch but then after your first 1-2 months, you are required to start finding solutions and developing on your own with slight when necessary help from the mentors. But once you start working on your own, you develop a good amount of self-confidence which I believe is very important.My working hours ranged from 9-11 hours. The work environment was good and people utmost helpful when needed.This experience provided me with a taste of what is to come when I join the working world.	2015-16-sem2

Company	Experience	Year
Oracle Financial Services Software Ltd, Mumbai	My PS-II station is OFSS Mumbai. I have been working here as a part of Automation team. Past five months have been a good learning opportunity for me. I was introduced to various programming as well as software related concepts and was provided with a platform to implement those concepts. For the implementation of the project, I had to learn various concepts like Linux commands, chef-solo, programming in Ruby. Initially when I arrived, I was a little scared and unsure of my role here and had no idea about coding. But once the work started, I slowly got comfortable. I got a week to prepare and got used to all the required concepts. No one told us where to find a solution a few times only that we had to find one. And this was the biggest factor in helping us transition from Academic Learning to Industrial Application. Apart from learning various software related concepts, I have also realized how working in industry is different from academic projects. Practice School experience has also helped me become familiar with the required attitude and the working environment of companies. I also got an opportunity to interact with and learn from mentor and my manager who already have a lot of experience of working in industry. The constructive feedback from them has helped me in developing new skills as well as refining other skills. Hence Practice school has provided me the opportunity to learn new concepts. I sincerely believe that due to this experience I am now better prepared for the future and experience gained here will help in smoother transition from academics.	2015-16-sem2

Company	Experience	Year
Oracle India Pvt Ltd, Bangalore	I completed two projects during my five months at Oracle Bangalore. The first project dealt with generating automatic documentation for various REST projects. This project needed a bottom-up approach as documentation was to be generated for pre-existing projects. For this reason, Swagger was chosen. Swagger is easily integrated with JAX-RS projects. But default Swagger tool works on special Swagger annotations, not very helpful for already existing projects. Further research into the topic yielded a tool called JAX-RS Analyzer. This particular tool was available as a maven plugin, so could easily be added to existing projects. It analyzed projects at the bytecode level and generated not only Swagger documentation, but also Plain text, HTML, ASCIIdoc documentations as specified.The second project was to automate two commonly employed processes by users employing ApaaS services: zip up and upload application to Cloud storage, and to deploy the application from Cloud storage to Service. Maven was a natural choice as it integrates easily with Java projects. It was decided to create two Custom Maven Plugins for the task. Worked on learning Mojos and Maven. Understood how Cloud storage and Container services are integrated, and how to exploit this connection to complete the task at hand.Skill sets required for the projects were: REST Architecture, JAX-RS Analyzer, Swagger, Maven, Cloud Computing. Since I had a good programming experience, albeit in C++, working in Java was no issue.Rest of the concepts are acquired on the job itself. Learn as you go. There is not much supervision in this particular department of Oracle. Lack of a mentor limits one's options when it comes to sources of learning. So I needed to search and read through various blogs and papers to learn any new skill set. Manager was also unavailable most of the times, so there isn't anything in the name of supervision or help.Take-back from PS-II experience: PS-II is an amazing opportunity to learn how the industry works, and various standards and procedures used in the real world. What is really important is a mentor to help through the processes and with new concepts and tools. Someone with an experienced insight into the industry by the lieu of working in it for years. It takes a lot more time and effort, with determination to learn and grow, to successfully complete projects at such a scale without supervision.I was able to learn a lot of new concepts and standards, maybe not as much as I hoped or expected to, but overall it was an enriching experience interning at Oracle.	2015-16-sem2

Company	Experience	Year
Oracle India Pvt Ltd, Bangalore	PS experience was very good in terms of learning new concepts. The time spent at PS-2 has been a great teacher in various spheres, including but not limited to understanding corporate life, expert guidance, apprehending new technologies and their developments and building a character. The training holds a lot of scope on a significant scale. One is expected to learn, work and develop on new technologies applying one's university education, which is, in itself, a mammoth task to achieve. For starters, it has made most of us early risers unlike the lazy slobs we were at college. Yes, academic experience is necessary, but the industry is a different ball game altogether; and PS2 provides a perfect opportunity to learn and acknowledge the differences. It all boils down to deadlines and work, but challenges are interesting too. Employee experience is great; and it helps build the initial industry contact base for future prospects. Things taught in college are just not enough. The industry is working on feats that are a century ahead of what is taught as academics. Sure, the basics are still the same; but constant learning is not a myth- it's the very reality we exist in and PS2 has just been a reminder of the same. Books, Internet and guidance or expert advice – as you may call it. Recommended books by your team are a necessary read. The initial two-three weeks in the company are all study no play, but that is exactly what sets a tone for the next five months at office. I learned a lot from browsing the internet. The amount of knowledge base on the internet is beyond tremendous and almost every troublesome aspect of books is explained in the simplest of terms. While there was limited material related to my project, the basics were still all there. Finally, a human touch to all of it is necessary. Helpful mentors make the cut here, and almost all the seemingly unresolved questions find answers with these people. Etiquettes are rarely taught by books and internet. PS-2 helps one to build their persona, knowledge base and interact with industry experts. The experience at PS-2 - if not affect my future career prospects - has at least made me aware of the current industry standard and situation and that adds to better chances at scoring a workplace. I have successfully completed two projects – PhoneHome project and Uninstall Feedback Email Transfer Module. There is some work left in third project Submitter information project that I will complete before the PS2 ends.	2015-16-sem2

Company	Experience	Year
Oyo Rooms (Tech) , Bangalore		2019-20-sem2
Oyo Rooms (Tech) , Bangalore	My project involved working with Oyo Life Backend Services. - Added functionalities like Guest Move In, Guest Move Out, Inventory Correction in the Oyo Life Consumer App. - Developed an Offline Tickets Download feature in Maestro Website. - Developed an App Rating Feature in the Oyo Life App which significantly increased the rating from 2.8 to 4.1 after the release. - Worked with Monitoring tools like Grafana to improve the performance of the Oyo Life Maestro app. Tool used (Development tools - H/w, S/w) : Java, Spring Boot, Postgres, MongoDB, Python, Kubernetes, Jenkins, AWS Objectives of the project : Adding more functionalities and Improvements in the consumerfacing Oyo Life App and staff-oriented Maestro App and Website. Major Learning Outcomes : The main learning outcome was working with the microservice architecture which is increasingly becoming popular nowadays for stability, maintainability and performance purposes. Learnt essentials of backend development, writing optimised production ready Details of Papers/patents : Brief Description of working environment, expectations from the company : There are no formal projects for the interns and no official training period as such. The interns are expected to work with normal employees starting with small tasks and later on big tasks as they become familiar with the tech stack. Working environment is very good. Working hours are flexible. The teams are well balanced and the mentors are very helpful and approachable. Academic courses relevant to the project : OOPS, DBMS	2019-20-sem2
OYO Tech , Gurgaon	Comments: Expectations from industry : Rivigo Services (Tech and Non Tech): Rivigo Services Pvt. Ltd., founded in 2014, is an Indian supply chain and logistics company that provide logistics services all across the country. The organization uses a unique relay model which puts them ahead of their competitors. Rivigo offers two roles as interns: Software developer and Business analyst Role. Interns in software development role are exposed to web development, full stack development, Android App development and maintenance. They get to work on latest technologies like Java Springs, Android, React, Redux, Node js and Python etc. Interns in Business analyst role are expected to product analysis, make live reports from data using SQL and Periscope and assist product managers to contribute to product vision.	2018-19-sem2

Company	Experience	Year
	It involves surveying product requirements, verifying the viability of solution framework from various teams and preparing technical specifications for technical team. In technology division, organization prefers to hire students with excellent programming and problem solving skills. Students should have excellent communication skills and analytical ability for business analyst role. Oyo Rooms(Tech and Non Tech): OYO Rooms, commonly known as OYO, is India's largest hospitality company, consisting mainly of budget hotels. Oyo Rooms offers multiple profiles in technology, product management and business development. Interns in technology at Oyo rooms have worked on front end development, back end development, developed dashboards for pricing metrics, implemented elastic search and also involved in unit and integration testing. Technologies include Hive, superset, Java, Maven, Ruby on rails and JUnit etc. Interns in business development are expected to maintain relation with channel partners and on board new properties. For tech role, organization prefers to have interns with excellent programming skills. For non tech roles like business development and product management, students should have good analytical skills and excellent communication skills. OfBusiness, Gurgaon: OfBusiness is technology driven start up that provides SME finance and SME business loans with flexible, hassle free and easy documentation. Organization offers profiles in software development. Interns have worked on web development, data preprocessing and character recognition to read captcha's using machine learning techniques. Technology stack includes python, java, tensor flow and keras etc. Organization look forward to hire interns who have sound knowledge of data structures and have excellent programming skills.	

Company	Experience	Year
OYO Tech , Gurgaon	I want working on SAP Syncing and SAP stability. Since, my team was creating its own separate service as a part of Monolith to microservices project, I had received the opportunity to write the code from scratch. My team's work was to write code to generate payload which is then synced to SAP. The syncing requirements were provided to my team by business department and we used to implement them. Tool used (Development tools - H/w, S/w) : Ruby on Rails, Kafka, Amazon web services, DataGrip, Kibana, new relic, PostgreSQL, Sidekiq, Redis. Objectives of the project : To implement the SAP Syncing requirements given by Business Department Major Learning Outcomes : Ruby on Rails, AWS, Kafka, UI development, Database Query optimisation, Details of Papers/patents : - Brief Description of working environment, expectations from the company : I was given plenty of opportunities and ownerships. The work environment was good. But it was hectic too. There were times, when we used to get a call from the company even at 2 a.m. and had to work to fix very important issue. Sometimes, we had stay back till 12 a.m. in the office. But at the end of the day, I have developed a lot of skills during the internship. I was really lucky to get the opportunity of developing the code from scratch. The entire team was very cooperative and supportive. Academic courses relevant to the project : -	2018-19-sem2
OYO Tech , Gurgaon	Development of a microservice in java and ruby Tool used (Development tools - H/w, S/w) : Eclipse,android studio Objectives of the project : For proper functioning of their server Major Learning Outcomes : Java,ruby,psql,mongo,spring Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : OOp,dbms	2018-19-sem2

Company	Experience	Year
OYO Tech , Gurgaon	My team's main work was in backend where we had to build the various services or features for the hotel manager's App. My work consisted of creating integrated system for all the translations used in various other projects. These translations were crucial for internationalization of OYO. I worked on a project which provides the hotel manager, a structure to keep check on the cash transactions. Tool used (Development tools - H/w, S/w) : S/w : Spring, SpringBoot frameworks, java, AWS, Jenkins, Kubernetes, Postgresql database and Mongodb databases, Intellij Objectives of the project : To create certain features for the hotel manager which will help him to co-ordinate staff, cash transactions and to provide all the features in his native language and not just in English. Major Learning Outcomes : I learnt various tools to build an application which I have already listed. I learnt how to create the REST APIs, what is the meaning of the business logic, writing an industry level code, major products in the organization, co-ordinating in a team. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : You can expect a lot of opportunities here. There is a lot to learn in every team and the growth here is exponential in terms of learning. There are many different teams and the work varies. So, there is something to work on everywhere. Working environment is pretty chill but it also depends upon your managers and the priority of work allotted to your team. Academic courses relevant to the project : Object Oriented Programming, C programming.	2018-19-sem2
OYO Tech , Gurgaon	Worked on feature development of consumer desktop website and mobile PWA. Used the latest web technologies and framework to implement the same. Tool used (Development tools - H/w, S/w) : JavaScript, HTML , CSS, ReactJS, Handlebars Objectives of the project : Feature development for the mobile and desktop website and overall improvement of user experience Major Learning Outcomes : Learnt latest web technologies like ReactJS. Also working and handling the pressure in a fast paced working culture Details of Papers/patents : Brief Description of working environment, expectations from the company : OYO Rooms is one of the fastest growing startup in the country currently. The work around here is so fast paced that you can get to learn a lot in very less time. One can expect long working hours but the learnings which one can get here can prove to be very useful Academic courses relevant to the project : OOPS, DSA , OS	2018-19-sem2

Company	Experience	Year
OYO Tech , Gurgaon	Web development of website for managing hotel booking from manager end. Tool used (Development tools - H/w, S/w) : React, VS code, AWS Objectives of the project : Provided hotel management service to properly Manager. Major Learning Outcomes : Front end web development Details of Papers/patents : Brief Description of working environment, expectations from the company : Friendly working environment. Everyone is helping in nature. Promote new thinking. Academic courses relevant to the project : None	2018-19-sem2
OYO Tech , Gurgaon		2019-20-sem2
OYO Tech , Gurgaon	I was involved in multiple projects which involved backend as well as frontend development. Backend development was done in Java whereas frontend development was done in Ember.Js which is built on JavaScript. I was a part of the Operations Technology team. My team was responsible for all the platforms built for room level as well as hotel level auditing of all the OYO properties all over the world. I was responsible for creating a full stack webpage for automating the whole process of creating Audit Configurations. I also worked on a new incentive plan for Property Manager of a hotel where he/she would get incentives proportional to the number of walk-ins on that hotel. This project was done in Ruby. Tool used (Development tools - H/w, S/w) : Java, Ruby, JavaScript, Ember.JS, IntelliJ, VS Code Objectives of the project : Explained above Major Learning Outcomes : Learnt how to write clean code. Learnt new technologies. Learnt new ways to solve a problem. Details of Papers/patents : Brief Description of working environment, expectations from the company : Good work environment. As long as your work is on time, no one is going to say anything. Academic courses relevant to the project : OOP	2019-20-sem2
OYO Tech , Gurgaon	The PS was wonderful. I got PPO in it. Tool used (Development tools - H/w, S/w) : SpringBoot, Ember.js, Javascript, MongoDB, Postgresql, Java Objectives of the project : Backend and Frontend Development Major Learning Outcomes : Software Development Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Working Environment is very good. Also, working hours is flexible. Academic courses relevant to the project : Object Oriented Programming	2019-20-sem2

Company	Experience	Year
OYO Tech , Gurgaon	- Developed backend for referral program: A refers B, both are rewarded on signup and checkout as per the existing scheme running in their segment. - Fullstack development of the Audit platform for scheme change in different segments. The platform automated the task of scheme change by the business; where on request for a change, an approval link is mailed and the scheme replaces the previous active scheme. Tool used (Development tools - H/w, S/w) : SpringBoot, JAVA, PostgreSQL, Redis, Angular, AWS, Kubernetes, Jenkins, Git, Postman Objectives of the project : Build Referral Program (similar to that in GPay) where both referrer and referee are rewarded based on the scheme running in their country and an Audit platform for change in schemes. Major Learning Outcomes : Fullstack development with very good opportunities in both Backend and Frontend. I worked mostly on Backend and had opportunities to work on AWS and kubernetes both, but that is completely dependent on random team allotment. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : There are definitely ample opportunities to learn and I strongly recommend this PS station if that is your goal. But at the same time, there are issues in terms of structured operation of the tasks, as in my team after the development of the complete task, on the day of final presentation seniors were discussing the layout of the project from scratch and wanted the 6 months task to be delivered in a week. Academic courses relevant to the project : OOP (Design Patterns), OS (may be), rest they give time to learn once you join. So, no prior preparations if you are well versed with at least one language.	2019-20-sem2
OYO Tech , Gurgaon	Backend development of features in SpringBoot JAVA and frontend development in React JS. Tool used (Development tools - H/w, S/w) : IntelliJ IDE,Webstorm IDE,DataGrip Objectives of the project : Introduction of new features and design revamp of Partner Page Major Learning Outcomes : Design pattern, SpringBoot framework, React JS Details of Papers/patents : NA Brief Description of working environment, expectations from the company : The working environment is very healthy and supportive. All the teammates are very knowledgeable in the field and help at every step to get the best out of you. Academic courses relevant to the project : OOP,DBMS,DSA	2019-20-sem2

Company	Experience	Year
OYO Tech , Gurgaon	SAP Syncing Stability Tool used (Development tools - H/w, S/w) : AWS, KAFKA, HIVE, RUBY ON RAILS Objectives of the project : Syncing Accounting formats to Sap after Validating the data Major Learning Outcomes : Skill to Develop Application, Ownership, AWS, Kafka Details of Papers/patents : - Brief Description of working environment, expectations from the company : Its a wonderful experience that PS2 has enable me to explore industrial presence.Regarding Company culture, Very Encouraging and supporting working environment. Ownership is most important while making an impact with your work which I learnd a lot from team. We are always welcomed to give new and unique ideas. Academic courses relevant to the project : Dsa, Oops, Os	2019-20-sem2
OYO Tech , Hyderabad		2018-19-sem2
OYO Tech , Hyderabad	My work consisted of front end development in React to come up with a new interface for an already existing service and backend development in Ruby on Rails to improve the existing architecture of the core software services being actively used at Oyo. Tool used (Development tools - H/w, S/w) : H/w - Macbook pro S/w - Ruby Mine, Visual Studio Code, Postman Objectives of the project : To improve the existing architecture of the oyo backend and also to develop a new interface with which interaction can happen more easily. Major Learning Outcomes : Learnt about the software development process, different technologies used in the industry, and how to develop software in a live environment where each change impacts millions of users. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working Environment was okay. Basic facilities were provided, in terms of office requirements. Academic courses relevant to the project : Software Engineering, OOPS, DSA, DBMS	2018-19-sem2
OYO Tech , Hyderabad		2019-20-sem2

Company	Experience	Year
OYO Tech , Hyderabad	Worked as a full stack developer in the Supply chain management teach team.I worked on development of various features foe their Unified ordering platform called OYOsis. Tool used (Development tools - H/w, S/w) : Spring Boot, React Js ,Apache Kafka, Apache thrift, AWS Objectives of the project : Development for various features for the SCM team's ordering platform. Major Learning Outcomes : Learned front end development using React and Back-end development using Java Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment was very friendly with flexible working hours. The team assigned to me was also very friendly and helpful. Academic courses relevant to the project : Object Oriented programming, DBMS	2019-20-sem2
PAYPAL , Bangalore		2018-19-sem2
PAYPAL , Bangalore	Built an internal tool named billing admin to facilitate finding and debugging issues related to transactions carried out by PayPal users. It is a web app built using node js for front end with react and backend in java Tool used (Development tools - H/w, S/w) : Nodejs+ react, Java Objectives of the project : To facilitate and automate debugging issues related to transactions done by PayPal users. Major Learning Outcomes : Web app dev, networks, sql, nodejs Details of Papers/patents : None Brief Description of working environment, expectations from the company : A very stressfree environment conducive to learning and having fun at the same time. You are expected to deliver but get a lot of help from every employee. Academic courses relevant to the project : Dbms, networks, oop	2018-19-sem2

Company	Experience	Year
PAYPAL , Bangalore	I developed a framework that supports Interface Contract validations in Distributed Systems. This is helpful in Regression testing and ensures that code changes does not break the existing flows on Production. I was able to add them such that it didn't have impact on test case execution time by large factor. A lot of effort was required in testing code changes as I had to validate for various flows and also look into errors and exceptions in code. Tool used (Development tools - H/w, S/w) : Eclipse, Cassandra Database, MySQL Workbench, Git, Maven Objectives of the project : The objective of the project is to develop a framework which would ensure interface contracts are not breached in Cross Domain Components/Distributed Systems Major Learning Outcomes : 1) Learnt Java 8, Git, Cassandra DB, Jenkins, Spring Framework, Google Protobuff API, tools/applications internally used required for framework development 2) Implemented the validations and successfully tested them such that there were no false alarms 3) Implemented the solution such that the new validations didn't increase the execution time by large factor 4) Learnt code optimizations, dealing with errors/exceptions Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Working environment is very good and relaxed. The company has flexible working hours. Internal culture is friendly and collaborative. There is lot of focus on inclusion and wellness of employees. The company strongly believes in adding value for its customers by providing unique and fast payment experience. Academic courses relevant to the project : NA	2018-19-sem2
Paypal , Chennai		2018-19-sem2
Paypal , Chennai	Development on Payment tool Galileo and Galilei Tool used (Development tools - H/w, S/w) : Java EE, Mongo, ReactJS, NodeJS Objectives of the project : To detect and correct payment alerts and exceptions Major Learning Outcomes : Java EE, Mongo, ReactJS, NodeJS Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : OOPS	2018-19-sem2

Company	Experience	Year
Paypal , Chennai	A visibility dashboard was required by internal stakeholders at PayPal to be able to track the status of large batch payouts and communicate the same with the merchants, without having to contact the Payouts team at every turn. For the dashboard, I developed a front-end UI using NodeJS and React and a backend API using GraphQL to fetch data from SQL databases and display the relevant information at the front end. Tool used (Development tools - H/w, S/w) : NodeJS, React, GraphQL, HTML, CSS Objectives of the project : The main objective of the project is to develop a visibility dashboard for displaying real-time Large Batch Payouts metrics. Major Learning Outcomes : I was able to develop essential skills in developing Full stack web apps using ReactJS, Node and GraphQL. I also learnt a few concepts in Java8 and Springboot. I was also able to get an understanding of Agile team practices and how tasks are organised to improve team output and productivity. Details of Papers/patents : None Brief Description of working environment, expectations from the company : The work environment was very good during my time at PayPal. I was able to regularly talk to my teammates and clarify my technical doubts, which helped me quickly overcome any roadblocks and continue my work. My teammates were very helpful and clearly explained solutions to my problems. Academic courses relevant to the project : Object Oriented Programming, Database Systems, Computer Networks	2018-19-sem2
Paypal , Chennai	Automated some of the API's in the shipping product of PayPal. Tool used (Development tools - H/w, S/w) : TestNG framework, Postman Objectives of the project : To automate the testcases in the shipping product of PayPal Major Learning Outcomes : Learnt about how API testing is done and the importance of testing in real time business applications. Details of Papers/patents : Brief Description of working environment, expectations from the company : The work culture is very good with a lot of work life balance. The expectation from the company's side is to get the intern accustomed to the working environment in PayPal and to make sure he completes the job assigned to him by providing him all the required inputs. Academic courses relevant to the project : Object Oriented Programming.	2018-19-sem2

Company	Experience	Year
Paypal , Chennai	I did a series of POCs related to Android that would help improve the efficiency of existing systems. I added some features to the PayPal app to help improve the user experience. Tool used (Development tools - H/w, S/w) : Java, Android, Selenium, Gradle, Maven, Postman Objectives of the project : The projects were intended to allow me to explore emerging technologies and see how they can be applied for the improvement of PayPal products. Major Learning Outcomes : My Android development skills improved greatly. I learnt to use Postman to make API calls. I learnt how to use REST APIs. I worked in an Agile framework with sprint planning and demos. Details of Papers/patents : Brief Description of working environment, expectations from the company : My team was very supportive of my projects. I was provided ample guidance and encouragement to carry out my tasks. My mentors and managers pushed me to participate in various events that took place in the office. Everyone was very invested in my learning during my time here. Academic courses relevant to the project : Software Development for Portable Devices, Computer Networks, Object Oriented Programming	2018-19-sem2
PAYPAL, Bangalore	The overall experience at PayPal Bangalore is good. 5 months is a lot of time to spend at a company. You get to see the overall culture and business goals of the company. There were a lot of talks organized in PayPal to explain about the various products and services of PayPal. We also had an Off-site Intern Connect event organized in Chennai. The event a mix of fun and information. Various leaders of PayPal had assembled to give an insight about the current business goals as well as the future plans of the company. In my case, I was a part of the Consumer Engagement Platform and was developing a tool for offer Management which will allow all the Marketing managers to create various offers to be used by PayPal. The project involved learning new technologies like Elasticsearch and Spring framework. The skills set were acquired using various internal resources of PayPal and some resources shared by my team members. We developed Java RESTful services for the same. In my case the product was a relatively new product so I was also involved a bit in the designing process. But a new product has its own limitations. A lot of time was wasted to come up with the exact specification and requirements. Overall it was a good experience as I learnt a lot and also improved upon the things that I already knew. One advice would be that when you are	2015-16-sem2

Company	Experience	Year
	working on something try to understand the extent of impact your product will have on the business, it helps in the development process and also in the overall understanding of the project. There were a few hackathons held during the period of our internship. These hackathons offer an immense opportunity for learning. I along with 2 of my team members won one hackathon and we were given cash prizes also. Shah Mit Kalpeshbhai(2012A7PS214G) My overall experience at PayPal was excellent! When I joined here five months ago, I was completely new to a Software Engineering company. I had no previous experience in this domain. So, I had to learn quite a few things initially. Starting with Agile Framework, I got to learn various technology including Spring framework, Maven, JavaScript, Node.js, Web Services (REST and SOAP), etc. Also through out the internship, we were using many PayPal specific platforms to get our tasks done. It was also a totally new learning point of us. Though these type of platforms, vary from company to company, we realized that their purpose will be more or less similar. With a great support and guidance from my team, I was able to learn them and use them efficiently according to requirements. Apart from learning the technical part, we also learnt about how a company board plans their higher level goals and how they are implemented by various directors, managers and employees in a top-down fashion. We also had an interns offsite at PayPal's Chennai campus, where we learnt various aspects of corporate life, culture and business goals here at PayPal. I was working with Merchant Onboarding team. My team mainly focuses on helping Merchants onboard through PayPal platforms via Partners. Partner uses a GET Status API to get various information about merchants like their products, permissions, credentials, etc. These service calls were being executed in serial, because of which its response time was as high as 1.6 sec. My project was focused on parallelizing some of the service calls and reduce the response time as much as possible. After using PayPal's DGTask Executor framework to parallelize tasks, we did Load & Performance Testing to measure the performance of the modified code. After doing scalability testing and long duration testing, we finally came to know that response time was reduced by 37%, while keeping the System CPU Utilization same and an increase in TPS from 20 to 31. Afterwards, code was sent for production. Apart from some basic skills required, tools required for this project were mostly PayPal specific. PayPal has its own documentation of	

Company	Experience	Year
	all the technologies used by it – 'Confluence', and I mostly used that to learn those tools. Also, whenever a clarification was needed, I used the question-answer forum maintained by PayPal – 'AnswerHub'. Apart from that, team members were always more than ready to help. One thing I learnt from this experience was, the way we approach the problem and skills required for the same are quite different in corporate life from that we learned in the college. And as we were told in the introductory presentation of PS-II, it truly served as a bridge between the college and actual work places. I am grateful to BITS for providing me this excellent learning opportunity!	
PAYPAL, Bangalore	It was to learn Hadoop and pig scripting language and running scripts over PayPal data residing on cluster and also to build insights from that data. Tools used (Development tools - H/w, S/w): Hadoop, Pig, Shell Scripting, Virtual Machine and IntelliJ. Objectives of the project: To build insights of data residing on cluste. Outcomes of the project: Pig scripts were coded and run over data and build dashboard to display statistics of error while receiving and storing data on cluster. Major Learning Outcomes: Pig, Hadoop, Coding improved, Git. Brief Description of working environment, expectations from the company: Working environment is good, it was a self project, so I did at my pace and when required, was given help by team members.	2016-17-sem2

Company	Experience	Year
PAYPAL, Bangalore	Mobile application development and Testing. Tools used (Development tools - H/w, S/w): Javascript, React Native, Java, TestNG, and Appium. Objectives of the project: 1. To participate in development of mobile recharge app eventually released in Italy. 2. To develop end-to-end functional testing frameworks that are classified on the basis of speed, and make these tests command-line runnable for any user. Outcomes of the project: 1. Completed development of various sections of app 2. Created testing suites classified on the basis of speed, and make them command-line runnable for external users. Also worked on an automation system that does automated testing of the various use-cases of the app. Major Learning Outcomes: Learnt Javascript and React Native technology for app development, and Java and Javascript for testing and automation. Worked for a product that eventually went live which was a major learning experience. Experienced product development cycles and corporate culture, and got a good feel of the organisation in general. Brief Description of working environment, expectations from the company: PayPal is a company which is fast creating a name for itself in the industry. I was a part of the Consumers Value-Added Commerce Team, with my team working on mobile recharge applications. I worked closely on such an application, working with Javascript and React Native which is a new and fast-growing technology. This was a product which eventually went live, which was a good learning experience. Apart from this, I created a functional testing suite that performs end-to-end API calls. This suite can deployed on any user's machine and run on the command-line, and was created using Java frameworks and PayPal's internal technologies. I also worked on a testing automation system that uses Javascript and Appium framework, which performs completely automated testing of various use-cases. My teammates were extremely smart and knowledgeable people and I got to learn a lot from them. Working environment was appropriately relaxed and fun. Open office culture means that you can approach anyone without prior appointment, which is very important for newcomers. It is an amazing environment where we work and have fun as well. As interns, we were also taken to an offsite event in Chennai, where we interacted with the senior members of the company and participated in lots of activities which was a wonderful experience. I had a lot of fun interning at PayPal and am grateful to the PSD for providing this wonderful learning experience.	2016-17-sem2

Company	Experience	Year
PAYPAL, Bangalore	My work was to implement the FPTI (First Party Tracking Infrastructure) for my team so that user behavior and needs can be better analysed and tracked. I kept track of all the user processes and events and sent it to the FPTI server to make a proper log of it. On this logs with particular name tags, proper analytic algorithms were applied so that proper deductions on user needs can be made. Tools used (Development tools - H/w, S/w): Software tools used - Eclipse (java), Postman (for calling the APIs), Kibana (for looking up the search results) Objectives of the project: 1.To tracks every user process 2. To log the data that is collect the data and send it to the FPTI server 3. To be able to see the data on Kibana in proper format. Outcomes of the project: I was able to listen to every user event and make a log of that onto to the FPTI server and thus this data can now be used for analysis. Major Learning Outcomes: 1. Working in a big MNC and thus learning the work culture 2. Applying the the theoretical knowledge learnt until now and learn which things are actually important 3. Stronger Java Concepts Brief Description of working environment, expectations from the company: The working environment and culture of PayPal is just amazing. It is a very open culture where you approach anybody and everybody without worrying about the hierarchy or titles. There is a lot of activates to do in your free time and lots of events happening regularly.	2016-17-sem2
PAYPAL, Bangalore	Created a platform to provide email notifications regarding the status of offers to their creators/managers as a part of the offers and rewards team at PayPal. Tools used (Development tools - H/w, S/w): Java, Oracle DB and AMQ. Objectives of the project: To Create a platform to provide email notifications regarding the status of offers to their creators/managers. Outcomes of the project: Created a system to do the same, as part of the existing Offer Management System. Major Learning Outcomes: Learned to use Java and its various frameworks to create a system to perform a key organisational task. Brief Description of working environment, expectations from the company: The working environment was excellent, and all the team members were extremely patient and helpful.	2016-17-sem2

Company	Experience	Year
PAYPAL, Bangalore	Built a demo-able proof of concept for a product idea using all the internal tools and systems. I also integrated with many of their existing services and lead the project to completion. Tools used (Development tools - H/w, S/w): JAVA, Oracle SQL, NodeJS, ReactJS, and Spring Framework Objectives of the project: * To build a proof of concept for a product idea * to develop the POC in such a way that it can be productionalised with minimum changes. Outcomes of the project:* Completed the development of the planned proof of concept Major Learning Outcomes: * Agile Software Development * Micro-services based Software Development * Spring Framework * Familiarity with NodeJS Brief Description of working environment, expectations from the company: The company culture is great and it's a great opportunity for any fresh graduate to get to work here. Everyone at the centre embodies a similar spirit of being a customer champion. I felt that the team is made of able engineers and leaders. Frequent meetups and interactions with higher management keeps you motivated towards a common goal. A good stipend and great perks are just a cherry on the top.	2016-17-sem2
PAYPAL, Bangalore	Developed complete web stack for an application for internal use. Tools used (Development tools - H/w, S/w): Java, JQuery, Django, Python and Bootstrap. Objectives of the project: To automate the application testing process. Outcomes of the project: Expertise in web application development. Major Learning Outcomes: Django framework, javascript, node js, organizational services. Brief Description of working environment, expectations from the company: Good working environment. Good learning environment.	2016-17-sem2

Company	Experience	Year
PAYPAL, Bangalore	My project focused on creating a framework to determine the percentage coverage of rule tests in IBM's BMRS (Business Rule Management System). I worked on writing listener classes in Java that would test the extent of coverage of the Business Rules against the test suites and give the test coverage. Tools used (Development tools - H/w, S/w): Raptor (Custom Eclipse IDE), Grafana, Kibana. Objectives of the project: Automate test validations and determine test coverage for business rules engine. Outcomes of the project: Created automated test validations for capturing the percentage test coverage for various business rules. Major Learning Outcomes: Worked on core Java and Test frameworks, used softwares for data aggregation like Grafana and Druid. Brief Description of working environment, expectations from the company: The work environment and the culture is very good. Guys in the team were very helpful and always encouraged me to learn new stuff. The work - life balance is good, with flexible working hours. The overall environ helps you thrive and learn from your mentors and peers.	2016-17-sem2

Company	Experience	Year
PAYPAL, Bangalore	My point of focus doing the internship was Business Activity monitoring. It involves - Collection of data related to business activities in timely and efficient manner, Analyzing data based on dimensions relevant to specific concerns, displaying the result of the analysis in a user friendly interface. I used ELK stack for the same. Elastic search is a search engine based on Lucene. It provides a distributed, multitenant-capable full-text search engine with an HTTP web interface. Log stash is an open source tool for collecting, parsing, and storing logs for future use. Kibana is a web interface that can be used to search and view the logs that Log stash has indexed. It is also used to create visualizations of data stored in Elastic search. My project involved making code changes to publish the metrics relevant to my team from transaction request and responses to elastic search and analyzing them are using Kibana. Tools used (Development tools - H/w, S/w): Java, Elastic search, Log stash, Kibana. Objectives of the project: Building visualizations to analyze the Business Metrics, to gain insights. Outcomes of the project: Analyzed some important metrics to gain insights about my team's performance. Major Learning Outcomes: Learnt new technologies like ELK stack. Brief Description of working environment, expectations from the company: Good working environment, emphasis on learning. Proficiency in Java is not expected, but will be very helpful. Be willing to learn new technologies.	2016-17-sem2
PAYPAL, Bangalore	Build a Analytics dashboard for a Paypal Product which will help them to gain insights into the product. Tools used (Development tools - H/w, S/w): Pig, SQL and Metabase. Objectives of the project: - To build a developer independent analytical tool for the team by scrapping logs. Outcomes of the project: Helped team to gain insights and help in migration from legacy to new stack. Major Learning Outcomes: - Learned how to write Pig Scripts. Brief Description of working environment, expectations from the company: Working Environment is good. People here will help you. However my work was very monotonous. I did not learn much.	2016-17-sem2

Company	Experience	Year
PayPal, Chennai	The Practice school program of BITS completes the courses learnt in College, by supplementing with Industry exposure. As an intern at PayPal, I got to work with some of the brightest minds in the industry. It exposed me to the culture of software companies and gave me an opportunity to learn and understand the latest industry trends. I have been working with the Release services team of PayPal for the duration of my internship. My project was to develop a customer interaction tool for release services. The team owns a self-serviceability portal named Armor. To add to Armor, I developed a tool named, JIRA based release status tool, which serves as one stop shop for customer of Release services, which provide End to End release processing status for a JIRA ticket. The development of the project was done in Node.js. I learnt web application development from scratch. I was given sufficient time to learn the basic concepts of web technology, before the start of development. I was provided with freedom to implement my own ideas too. In addition to my project, I also learnt about the process involved in pushing code live to Data centers, the way data centers and load balancer works. The internship also helped me gain insights into Site reliability engineering. In addition to technical aspects of my project, I also learnt about Software development life cycle, waterfall and agile model of Software development, role of a developer and tester, how the organization is divided into business units, how these units interact with each other in an organized manner, to produce something massive. In PayPal.special events were organized for Interns, to bring them all together as a group. The university programs team provided us with opportunities to interact with the leadership team and with recent college graduates. Near the closing of Internship, interns were provided with opportunity to showcase our work in front of the entire organization. Interns were given importance and were encouraged to come up with new initiatives too. I also learnt that communication plays a vital role at team level and also at an organization level. I gained knowledge, contacts, experience and most importantly confidence.	2015-16-sem2

Company	Experience	Year
PayPal, Chennai	PS-II as such being a wonderful program proved to be wonderful for me once again here in PayPal Chennai. Things learnt here are many. But I can mainly categorize them into two. One is, technical aspect of it and other being personality building in an IT sector. One of the projects I have worked here is on developing a Rest Service. Me being new to what a Rest service is I need to learnt it through some video tutorials and with the help of my mentor got things familiar about how to start with a rest service . This service would help improving query performances on particular data these people use here . We try to archive some of the data from production DB to a data Warehouse thereby improving the performance of the queries. Hope I contributed something useful to the company through this project . And the second project I have worked on is developing a tool to help developers face live issues. It is an entire C++ project. This tool would reduce the time taken by developers in solving live issues . Proud to be a part of these projects which would help my team. And coming to other part of learning regarding personality development, learnt a lot from my team people here. The way they receive new people and the way they help each other at times of difficulty. The way they learn from each other irrespective of their designations is something which is really amazing. It was a feeling of equality among all of us here. So it was that which made me feel comfortable gradually. And as such work culture here in PayPal was awesome. Even we had deadlines all of them are according to the individual convenience. Nothing would be beyond an individual capacity. To conclude, I would like to recommend this place as an option for all computer science and IT students who want to have a good experience of working somewhere you will feel independent and important. Our sincere thanks to PS division for this opportunity and good luck to the student readers.	2015-16-sem2
PAYPAL, Chennai		2016-17-sem2

Company	Experience	Year
PAYPAL, Chennai	End-to-end Design and Development of Verification as a Service. Tools used (Development tools - H/w, S/w): Spring Boot, Node.js, Kraken, React and Redux. Objectives of the project: =- Study the verification services market - Chalk up the high level and technical design for the project - Build the service. Outcomes of the project: Chalking up with the design and completing phase 1 of the project. Major Learning Outcomes: =- Gained domain knowledge - Learnt Java, Node, React. Brief Description of working environment, expectations from the company: Informal and Open Environment.	2016-17-sem2
PAYPAL, Chennai	A solo project titled 'API Specification Tool' whose objectives were as follows: Automate the creation of Open API Specification of a RESTful API that is not prone to manual errors. The tool itself is a SPA built using React.js and the Material UI library. The tool includes features for creation of CRUD components by drag and drop mechanism, allows creation of (composite) objects, includes parameters and responses for each method, allows existing PayPal object definitions to be included with modifications. You can also save an API to local browser's memory and edit it later. The API Spec can be created in JSON format. Tools used (Development tools - H/w, S/w): React.js (Material UI library and others). Objectives of the project: Automate the creation of Open API Specification of a Restful API that is not prone to manual errors. Outcomes of the project: A JSON API Spec is created via automation that will reduce the time required for API documentation to be created. Major Learning Outcomes: Learnt front end development using React.js and npm. Also learnt Node.js for another short project. Brief Description of working environment, expectations from the company: Working environment is like most software tech companies in the US. Each intern is assigned a mentor and others in the team are also easily approachable for work related queries. Expectations: You are expected to complete the project in byte sized chunks and show progress at each stage to your mentor and manager.	2016-17-sem2

Company	Experience	Year
PAYPAL, Chennai	PayPal is one of the frontiers of payments in the world. I was part of the Transaction Engine Team which worked on the System of Records. I was involved in more than one project during the entire course of PS. My work required the use of javascript and Spring Boot to build system integrity tools for database. JAVA and C++ knowledge was a must to begin with as most of the underlying code (except the UI) was in JAVA or C++. Later on I built tools to monitor box level health information for the servers. Tools used (Development tools - H/w, S/w): javascript, spring, Django, JAVA. Objectives of the project: To implement tools for database monitoring purposes. Outcomes of the project: Managed to finish and fix bugs within the given time frame (Agile Policy). Major Learning Outcomes: Learned to work in an environment which required building on existing code rather than writing from the scratch. Brief Description of working environment, expectations from the company: One of the best places to work as a student or a fresher. Co-workers very helpful and as far as the code base is considered, it is neatly documented so new people can easily start working.	2016-17-sem2
PAYPAL, Chennai	Migrating PayPal's Loss Forecasting process from SQL + Teradata to Python + Hadoop and moving to a Daily Loss Forecasting paradigm using Python Parallelization. Tools used (Development tools - H/w, S/w): Python Pandas, Parquet Reader and Hadoop. Objectives of the project: To adopt a daily loss forecasting model. Outcomes of the project: Daily Loss forecast takes ~20 minutes as opposed to ~2-3 hour long Monthly forecast. Major Learning Outcomes: Forecast process, methods and parallelization. Brief Description of working environment, expectations from the company: A relaxed and fun place to work in. Approachable people, decent work. Facilities like free gym, drinks, snacks, pool table, badminton, basketball, TT table.	2016-17-sem2

Company	Experience	Year
PAYPAL, Chennai	Project 1: It was a web development project. We had to build an intranet portal for the team using concepts of gamification. We used a Node.js, Express.js, Mongodb stack. I worked on the backend. We used the MVC design pattern in our project. Project 2: Building a slack bot for monitoring purposes for a team. First I experimented this in Node.js using Botkit. The bot took input commands from the Slack user, and formatted them to a JSON, which would be used to query the ElasticSearch API. I then moved on to Scala, as team's codebase was in Scala. After trying multiple things, this project was called off, as there isn't enough support to build Slack bots in Scala. Project 3: Building an operational dashboard for the team. It primarily involves work in Angular.js and frontend. Tools used (Development tools - H/w, S/w): Project 1: Node.js, Express.js, Mongodb, Javascript, HTML, CSS; Project 2: Node.js, Botkit, Express.js and Scala Project 3: Angular.js, Javascript. Objectives of the project: Project 1: Build an intranet portal. Project 2: Build a Slack Bot that takes in input commands, and replies with monitoring information. Project 3: Build an operational dashboard (portal). Outcomes of the project: Outcomes of the projects are the same as the objectives. Major Learning Outcomes: Project 1: Node.js, Express.js, Mongodb, Javascript, HTML, CSS; Learnt MVC design pattern, learnt web development essentials. Project 2: Node.js, Botkit, Express.js, Scala learnt how to build a Slack bot. Project 3: Angular.js, Javascript. Brief Description of working environment, expectations from the company: Culture here at PayPal is very good. The main office is in Chennai, so there are more opportunities here. There is always some or the other event happening in office. Work wise the company is relaxed. I don't think there is much pressure. It's up to you how much pressure/workload you want to take up. Benefits: There is a gym, dance/yoga/aerobics classes. Cafeteria food is very good and reasonably priced. PayPal buses are available for pickup and drop.	2016-17-sem2

Company	Experience	Year
PAYPAL, Chennai	The goal of the project is to continuously optimise the product, based on results from B2C sales and operations. For this, continuous feedback is taken from the customers, in order to develop the product. In essence, any positive outcome from B2C sales is analysed to further improve the product; and any negative outcome is analysed to change particular product features. Also a work flow for the tech team is created in order to automate a few processes. Tools used (Development tools - H/w, S/w): Excel/Google Sheets/Internal tools. Objectives of the project: The goal of the project is to continuously optimise the product, based on results from B2C sales and operations. Outcomes of the project: Inputs given to the tech team reduces the time taken to efficiently carry out operational processes. Major Learning Outcomes: A great understanding of the startup world. Brief Description of working environment, expectations from the company: Great working environment, enthusiastic people to work with. Adding value to the company in some or the form is the only expectation.	2016-17-sem2
Petasense - Services & App Development , Bangalore		2018-19-sem2
Petasense - Services & App Development , Bangalore	Designed a rule based engine to predict health of bearings on industrial machinery. Also, I worked on building a microservice around this algorithm. Aside from this task, I worked on several minor software development tasks (Both back end and UI-UX). Tool used (Development tools - H/w, S/w) : Postgresql, Python, Redis, Celery, Kubernetes, JavaScript. Objectives of the project : Full stack development Major Learning Outcomes : Learned a lot about software development and vibration analysis. Details of Papers/patents : Brief Description of working environment, expectations from the company : Extremely helpful and knowledgeable team. Academic courses relevant to the project : N/A	2018-19-sem2
Petasense - Services & App Development , Bangalore		2019-20-sem2

Company	Experience	Year
Petasense - Services & App Development , Bangalore	This Project is a bunch of features in which you can be expected to work on writing APIs, managing database, creating dynamic UI components and also fixing bugs. I worked on creating a Trusted device Two factor authentication system for login , changing the Email service to sendgrid-python and creaeting multiple UI components for Webapp. Tool used (Development tools - H/w, S/w) : Python, JavaScript, ReactJs, AngularJs, Flask, Celery, Robot, Cucumber, Postgresql etc Objectives of the project : Make workign APIs and UI Components as per requirements . Major Learning Outcomes : Learnt a lot in the field of Full Stack Web Development, Optimization techniques, Version control systems, HTML, CSS, Database management, writing modular code. How to manage , estimate tasks Details of Papers/patents : None Brief Description of working environment, expectations from the company : Petasense is small startup with around 12 developers in india. Employees are friendly , willing to solve doubts and are passionate about their work. You can expect a good experience with overall product design and learning to write production ready code, following best practices and being involved with all stages in development. Expect to take up responsibility of some really cool features. Academic courses relevant to the project : Computer Programming, Object Oriented Programming, Datastructures and Algorithms	2019-20-sem2

Company	Experience	Year
Petasense - Services & App Development , Bangalore	Primary project was related to full stack web development where we had to develop features as per the requirements. Their main app has its frontend written in ReactJS, D3.JS and the backend written in Flask. Tool used (Development tools - H/w, S/w) : AngularJS, ReactJS , Python , Robot Framework , Cucumber , Gherkin , Celery, Postgresql. Objectives of the project : To develop web application features as per the requirements. Major Learning Outcomes : Learnt a lot in the field of full stack web development, optimization techniques, version control system, good practices to write modular code with documentation and finding out about the work process and how to manage, estimate time for your tasks. Details of Papers/patents : - Brief Description of working environment, expectations from the company : Great work environment. Every member of the team is extremely approachable and eager to help. You will definitely get to work on features that are significant to the company. No matter what work you're assigned, you will definitely learn a lot. Academic courses relevant to the project : : Object oriented programming, DBMS , Machine Learning	2019-20-sem2
Pfizer Ltd. , Ahmedabad		2018-19-sem2

Company	Experience	Year
Pfizer Ltd. , Ahmedabad	understanding of regulatory department working by reading the guidelines/SOP for 2 to 3 months. Referring the health authorities sites , discussion and doubt solving sessions by guide. preparing few submission documents. Tool used (Development tools - H/w, S/w) : web searching and Ms office. Objectives of the project : The objective of this project is to understand the root cause of such disruptions and build up strategies to overcome them, to highlight regulatory strategies to mitigate such problems, to track down regulatory requirements for major geographic (EU, US, Australia, CA, SA, ASIA, China & Japan). Major Learning Outcomes : 1. In-depth understanding of the guidelines from health authorities on the post approval reporting categories. 2. Understanding of the CTD Sections (the format of filling any drug product details), DMF, CEP. 3. Briefly overview of vendor management system (in co-ordination to quality assurance department) 4. Learned regulatory filing procedures for a particular change control. 5. Strategy building for grouping of variations. 6. Professional ways of communication with people. Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : Good working environment with all necessary facilities , encouraging and helping colleagues . company is expecting much on how much knowledge we gain rather than just completing a project. Heads of department spend time to review the final presentation and shares their suggestions and advice. There is a proper communication with other sites. monthly knowledge sharing meetings based on regulatory topics. competitions and team building activities are also carried out. Academic courses relevant to the project : QARA- Quality assurance and Regulatory affairs DFD- Dosage form design (parenteral part)	2018-19-sem2
Pfizer Ltd. , Chennai		2018-19-sem2

Company	Experience	Year
Pfizer Ltd. , Chennai	The project done is regulatory requirements in the renewals of finished pharmaceuticals in Europe and Southeast Asian Countries. For this I went through the official websites of different countries, and tried to extract information either from the renewal guidelines or from the subsection of renewal guidelines in the registration ones. I jotted down the requirements and procedure of filing for each of these countries and plotted out the differences between them. Tool used (Development tools - H/w, S/w) : NA Objectives of the project : Regulatory Requirements for the Renewals of Finished Pharmaceuticals in Europe and Southeast Asian Countries Major Learning Outcomes : CTD, ACTD, NDA, ANDA guidelines, Guidelines for registration and filing of renewals in the above mentioned countries Details of Papers/patents : NA Brief Description of working environment, expectations from the company : The working environment is good and appreciable. People are really supportive and reach out to help in case of difficulties. It's a cool, calm and composed environment though with lots of work too. The expectation from the company is to be more supportive and to provide a learning background to help us grasp things better Academic courses relevant to the project : Quality assurance and regulatory affairs, Intellectual property rights, Pharmaceutics.	2018-19-sem2

Company	Experience	Year
Pfizer Ltd. , Chennai	Once an NDA, ANDA or a BLA is submitted to any agency for marketing of that particular drug product, it goes through many changes every year until its term period, and each of its change must be notified to the agency. The change may be minor or severe with respect to the quality, safety and efficacy of the product. Thus, they must be filed under their respective categories for the approval of those new changes that needs to be used for the distribution of marketable products. One such type is the minor category of changes which is filed across different markets based on their own specifications and procedures. The minor changes are termed Annual reports in the USA, Type 1A variation in Europe, Annual notification in Canada, Minor variation in Australia and Product Change History in Brazil. Though their classification may be based on the same ideology (minor or no impact on the quality, safety and efficacy of the product), each market has its own documentation requirements and conditions to be fulfilled for a change to be categorized under the above said category. Thus, my project deals with the understanding, requirements and specification of minor type of changes in the USA, Europe, Australia, Canada and Brazil. Tool used (Development tools - H/w, S/w) : Objectives of the project : to understand the various requirements for Minor changes in USA, Europe, Canada, Australia and Brazil Major Learning Outcomes : to Understand the core Regulatory process from an organizations perspective Details of Papers/patents : Brief Description of working environment, expectations from the company : The organization had treated us like one among their employees. The organization's head, Mr. K S Babu (Head of Regulatory affairs, India), a fellow BITSIAN, had been supportive through out the duration of the project. Academic courses relevant to the project : QARA	2018-19-sem2

Company	Experience	Year
Pfizer Ltd. , Chennai	The project is focused on regulations governing Orphan Drugs in various regulated markets, with a major focus on developed markets like US, EU, Japan, Australia. Criteria to designate a drug as orphan, submission requirements for filling application for getting orphan status and process of orphan designation. Incentives provided by agencies to support pharmaceutical industries and research organisation for developing these drugs. various challenges faced by agencies, industries and patients for the availability of orphan drugs. possible solutions to overcome these challenges Tool used (Development tools - H/w, S/w) : No specialized tools are used in the project. Objectives of the project : To understand the regulations governing designation of orphan drugs in developed nations, including incentive grants provided by Agencies that stimulate R&D to develop such drugs, submission requirements and process of orphan drug designation. Major Learning Outcomes : About orphan drugs and their significance. Criteria and process of orphan drug designation in various regulated markets. Progress of orphan drug development in past 3.5 decades. Status of orphan drug approvals in developed and developing nations. India's current thinking on Rare Diseases. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : The company and the employees are quite pleasant, supportive and encouraging in nature. Every one are easily approachable. As a BITSIAN company have high levels of expectations. Academic courses relevant to the project : Quality Assurance and Regulatory Affairs	2018-19-sem2
Pfizer Ltd. , Chennai	Searching web pages of health regulatory agencies of various markets for guidelines related to Registration requirements for NCE and Generics and extracting the required information from those guidelines. Tool used (Development tools - H/w, S/w) : GDMS (Global Document Management System), browsing the guidelines in web pages. Objectives of the project : The purpose of the study is to compare NCE & generic drugs registration requirements in Singapore, Malaysia, Philippines ,Thailand and Australia. Major Learning Outcomes : Learned about regulatory guidelines of different countries along with ICH & USFDA guidelines. Details of Papers/patents : Brief Description of working environment, expectations from the company : Excellent working and learning environment in the company. Academic courses relevant to the project : Quality Assurance and Regulatory Affairs	2018-19-sem2

Company	Experience	Year
PharmaACE , Pune		2018-19-sem2
PharmaACE , Pune	My work here is forecasting for the sales of pharma products Tool used (Development tools - H/w, S/w) : Excel and client based tool like forecastPro Objectives of the project : Client is acquiring another company hence the objective lies in consulting the clients if they are investing correctly and shoild they go ahead with the same Major Learning Outcomes : Concepts of forecasting, advanced excel and VBA learning Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment and the work is really interesting, there are challenges and you have to be proactive enough and be conceptual Academic courses relevant to the project : Clinical research, IPR, PAM, REGULATORY AFFAIRS, Pharmacology, Chemistry	2018-19-sem2
PharmaACE , Pune	he aim of the project is to develop a forecast model for a pipeline asset in COPD and Asthma to determine its commercial opportunities, which can be used a decision making and validating tool by the client specially the marketing and sales team to determine promotional and marketing strategies. The model should be inclusive of all current and probable future micro and macro-economic events and should have the provisions for including further events as they develop. The other aim for developing this model is to assess and minimize the external risk factors in short and long terms. Tool used (Development tools - H/w, S/w) : EXCEL and EXCEL based VBA Objectives of the project : To provide strategy planning guide and minimize risks regarding new product launch Major Learning Outcomes : Pharmaceutical forecasting techniques and market assessment Details of Papers/patents : NA Brief Description of working environment, expectations from the company : NA Academic courses relevant to the project : NA	2018-19-sem2
Piramal Group , Mumbai	Student	2018-19-sem2

Company	Experience	Year
Piramal Group , Mumbai	Creating model for construction finance usually takes can take up to 3-4 days, if created manually, and then transferring that data to the ppt takes 1-2 days more and if the data is changed even by a small amount then the whole process is repeated. By automating the whole model, user only have to fill 2 sheets and the rest of 10-20 sheets and the ppt of 60-80 slides is also created automatically all within 5 minutes and with no chance of error. The model, when complete will be used be all the finance, wholesale, and the risk teams working for the Piramal Group. For the development of the model, teams all across India have given their respective inputs on a weekly basis for two and half months, which were then discussed with the higher authorities and after their consent were then implemented in the model. Tool used (Development tools - H/w, S/w) : VBA Objectives of the project : Model Automation Major Learning Outcomes : Learned a new language(VBA) and understood how tracking is done for construction finance loans Details of Papers/patents : None Brief Description of working environment, expectations from the company : None Academic courses relevant to the project : None	2018-19-sem2
Piramal Group , Mumbai	To analyze the performance of various digital marketing platforms like Facebook, Google etc. for Piramal Capital and Housing Finance. Piramal started its housing finance division in October 2017. A customer interacts with various systems of the Piramal Ecosystem. After analyzing the costs across various social media channels I had to create an interactive dashboard using Microsoft Power Bi and incorporating other various other parameters into it. Since Piramal HFC is quite new, it was necessary to review the working of various parts of the ecosystem and performance of marketing channels. It was important to design a structured and scalable dashboard that could be updated and refreshed on a daily basis. Tool used (Development tools - H/w, S/w) : Python Pandas,R,MS Excel Objectives of the project : Improve the digital campaign effeciency for Piramal Capital and Housing Finance Major Learning Outcomes : Apart from learning about digital marketing ,a learning emphasis was given on the business model Details of Papers/patents : Brief Description of working environment, expectations from the company : Great working environment in which there is no heirachal system.One gets to interact with business heads on a daily basis Academic courses relevant to the project : Machine Learning,Information retrieval .	2018-19-sem2

Company	Experience	Year
Piramal Group , Mumbai	Brief write-up on PS-II station : Essential prerequisite courses required before working on the project Python,Pandas,VBA, Machine learning, python, R and excel Essential Tools Required to work on the projects Python, Excel, MySQL, R List the set of on campus courses taught which were useful in executing the project Neural Networks List the set of courses not studies but might have been useful in doing the project DSA,DAA, ML, FoDS, DBMS	2019-20-sem2
Piramal Group , Mumbai	A bank statement analysis procedure was required by the team at Piramal. Some existing methods generated by an outside vendor were used, and other new methods were generated. Using these rules, a fraud detection model was created by building frequency variables and scoring applicants on it. Other projects on account reconciliation, report summarisation and duplicate payment detection were done. Tool used (Development tools - H/w, S/w) : Pandas, Fuzzywuzzy, Pandas, Excel Objectives of the project : Fraud Detection using bank statement analysis Major Learning Outcomes : Domain knowledge of banking, data analysis, fuzzy logic Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Office timings were moderately flexible. Total of 9 hours work in a day was expected from every person, but there was some flexibility in the time of entry and exit. The team was helping and motivated. Academic courses relevant to the project : Foundations of Data Science	2019-20-sem2
Piramal Group , Mumbai	Mostly automation work using python, VBA and Microsoft excel. There was one very small analysis project. You just need to know one library of python, watch one course of VBA from coursera and you can do the work. Tool used (Development tools - H/w, S/w) : Python, excel and vba Objectives of the project : Make a tool which takes some excel sheets as inputs and outputs some excel sheets Major Learning Outcomes : VBA in Microsoft office. Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : Good working environment. You will learn how to deal with clients. Flexible hours are there but you need to work 9hrs a day. Academic courses relevant to the project : --	2019-20-sem2

Company	Experience	Year
Piramal Group , Mumbai	Projects related to Data Analytics were allotted. In my first project I had to cluster Strings into groups and find a pattern in every bucket. I used Affinity Propagation and Edit distance. I also built a Random forest classification model to detect frauds early on by using their Application data. Another project required me to build a Neural Network from scratch to classify receipts into various buckets. I also did a project to automate resource allocation optimally. In all of these projects I had to do data preparation, Model selection, Optimisation of the model and thorough analysis of the results. I got a good experience of how Data scientists do their work in the real world. Tool used (Development tools - H/w, S/w) : Python, Excel, XML Objectives of the project : 1) Clustering of strings using ML 2) Fraud detection model using ML 3) classification of Strings using Neural Network 4)Optimal Resource allocation Major Learning Outcomes : How to build, select and optimise ML models. Data Preparation, Feature selection and Analysis of the results Details of Papers/patents : Brief Description of working environment, expectations from the company : The working hours are flexible as long as one works for 8+ hours. The Managers and Mentors are very helpful and knowledgeable. They were very professional and guided me well. They were friendly and were understanding whenever I had a problem outside of the office. The Office is well lit with Natural light and we all get our personal work station. Academic courses relevant to the project : ML, FoDS, DSA, DBMS, OS, Programming with C	2019-20-sem2
Pitney Bowes Software India Pvt. Ltd., Noida	Comments: The project is mainly based on Machine Learning. Generation of recommendations for customers based on existing large volumes of data from various e-commerce and e-business sites. The students were able to achieve good levels of accuracy in generating recommendations using researchlevel algorithms. Though in research phase, the project adds good value to the company in terms of increasing efficiency and correctness to various existing processes. The students were able to think outof-the-box and research on new technological possibilities to approach and solve the problem at hand. Student	2016-17-sem2

Company	Experience	Year
Pitney Bowes Software India Pvt. Ltd., Noida	Worked somewhat on machine learning to classify sign boards, also worked with parallel databases. Tools used (Development tools - H/w, S/w): NVIDIA DIGITS, PG-Strom and Greenplum DB. Objectives of the project: To reduce the time taken to run queries by parallelising the database Outcomes of the project: The time taken by the queries was considerably reduced. Major Learning Outcomes: Greenplum is better than PG-Strom when run on a single machine. Brief Description of working environment, expectations from the company: Working environment is very good. Not much pressure is there from the company side.	2016-17-sem2
Pitney Bowes Software India Pvt. Ltd., Noida	Built a scalable and realtime product recommendation engine. Tools used (Development tools - H/w, S/w): Neo4j, Google Big query, and python. Objectives of the project: Generate lookalikes, and give personalised recommendations to customers. Outcomes of the project: Successfully built a scalable recommendation engine. Major Learning Outcomes: Practical knowledge of Machine Learning concepts. Brief Description of working environment, expectations from the company: Great work life balance. Though for the last one month didn't have any solid work to do. Mentor-ship should have more direction.	2016-17-sem2
Pitney Bowes Software India Pvt. Ltd., Noida	I built a recommendation engine by using matrix factorization giving transaction data as input. Tools used (Development tools - H/w, S/w): Jupyter Notebook, flask. Objectives of the project: To understand the working of different recommendation models. Outcomes of the project: Built a recommendation engine. Major Learning Outcomes: Machine Learning, Python. Brief Description of working environment, expectations from the company: Pitney bowes has a very friendly and welcoming environment. All the basic facilities are available here.	2016-17-sem2
Pluss Advanced Technologies Pvt. Ltd. , Gurgaon		2018-19-sem2

Company	Experience	Year
Pluss Advanced Technologies Pvt. Ltd. , Gurgaon	I have worked in Research and Development department of the organization. We worked on a phase change material based heat sink for electronic vehicle batteries. We also worked on new calorimetric methods for measuring thermal properties of phase change materials. Tool used (Development tools - H/w, S/w) : T-History, DSC, Injection Moulding, 2 Roll Mill, Muffle Furnace etc Objectives of the project : THermal Sink for EV Batteries Major Learning Outcomes : Working of EV Batteries and new calorimetric methods Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Thermodynamics and Heat Transfer	2018-19-sem2
PricewaterhouseCoopers (PWC) , Gurgaon		2019-20-sem2
PricewaterhouseCoopers (PWC) , Gurgaon	Consultation on Government Projects. The work was more concentrated on secondary research and data analytics. It comprises of rigorous analysis on upcoming government projects in railway stream and providing consultation on traffic and financial accessibility of the project Tool used (Development tools - H/w, S/w) : MS Excel and MS Word Objectives of the project : The projects included traffic study and its future profit to the government organisation (railways in person). The project also included providing consultation on financial accessibility to the projects Major Learning Outcomes : Some of the major outcomes included the understanding government dealings. Shear understanding of the corporate world and professionalism included. Understanding on how top consultancies work throughout the world Details of Papers/patents : Brief Description of working environment, expectations from the company : The work environment is quiet decent. The team in which I worked was very supportive. They understood the problems that are faced by a an engineering undergraduate and helped me a lot in understanding the work culture Academic courses relevant to the project : Airways, Railways, Waterways	2019-20-sem2

Company	Experience	Year
PricewaterhouseCoopers (PWC) , Gurgaon	Different Projects I have been a part of during my PS-2 are: 1) Made a tool using VBA programming in excel which reduced the time to make project CV by 95%. 2) Developed a Market Entry Strategy for a Oil Company 3) Did a Financial Feasibility Analysis for a proposed Company 4) Did Market Demand Assessment for a Company 5) Developed a Gas Market Strategy for a European Country Tool used (Development tools - H/w, S/w) : Microsoft Excel, Microsoft PowerPoint, Optimization Tools Objectives of the project : Client Deliverables Major Learning Outcomes : Decision Making skills, Strategy making, Time Management, Teamwork Details of Papers/patents : Brief Description of working environment, expectations from the company : Work Environment is very Positive. You need to be Proactive and initially interact with everyone to get yourself involved early in a project. If you prove that you are dependable and accountable then you will get to work on Live projects also that are going on in the team. You will also get to be the part of Client Meetings where you can directly interact with the client. You will also get to travel a lot to different PSU's where again you will get a chance to Interact with People. PwC Gurgaon is a Front End Office unlike other consulting firms in the same building. In the same building, you will find people from BCG, BAIN, KPMG, Deloitte and if you are an extrovert you can get benefitted from it. Academic courses relevant to the project : Supply Chain Management, Engineering Optimization, Fundamentals of Finance & Accounting, Business Analysis and Valuation, Derivatives & Risk Management	2019-20-sem2
PricewaterhouseCoopers (PWC) , Mumbai	Student	2018-19-sem2

Company	Experience	Year
PricewaterhouseCoopers (PWC) , Mumbai	Market entry if an international client in Oil and Gas industry in India, entry of a present player of Cement industry into the refinery and petrochemical segment and process flow to build a bitument refinery in India Tool used (Development tools - H/w, S/w) : Excel, Powerpoint Objectives of the project : Market entry into the Oil and Gas industry in India Major Learning Outcomes : Presentation skills, Consulting world, Soft skills Details of Papers/patents : Brief Description of working environment, expectations from the company : Environment is quite flexible and friendly, expectations is to rely more on interns and include them in the client meetings Academic courses relevant to the project : Supply Chain Management	2018-19-sem2
PricewaterhouseCoopers (PWC) , Mumbai		2019-20-sem2

Company	Experience	Year
PricewaterhouseCoopers (PWC) , Mumbai	I was part of 2 projects. One was based on Thought Leadership and the other was a client-site project. During the initial days, lots of research work was done for collecting the data from reliable sources. Excel model was made by me to analyse the results. The client-site project was of Management Consultancy background. I made some excel tools for the client which will be used by them throughout their offices across the country. Tool used (Development tools - H/w, S/w) : Ms-Excel, Ms-Powerpoint, Excel Solver and ThinkCell Objectives of the project : Comparative cost analysis of different modes of transport technologies and arriving to the result that which technology will be successful by what time and in which states of the country. Major Learning Outcomes : Soft skills developed- Advanced excel with VBA coding and macros. Presentation skills- due to regular exposure with client, deliverables had to be presented frequently. Analytical skills- The amount of data which was to be analysed was humongous. Details of Papers/patents : Brief Description of working environment, expectations from the company : PwC is one of the 'Big Four' company hence professionalism in the work environment can be expected which even reflects when you join them. The employees are friendly and always ready to help and guide you. In return, the expectations from you is dedication, quality ouptut and commitment. Academic courses relevant to the project : None. The only thing expected from you is a strong thought process on how you tackle the real life problems.	2019-20-sem2
PricewaterhouseCoopers (PWC) , New Delhi		2018-19-sem2
PricewaterhouseCoopers (PWC) , New Delhi	Performed analytics for German development bank for their study on minigrid Tool used (Development tools - H/w, S/w) : Python, Tableau, MS Excel, MS Word Objectives of the project : To study the minigrid scenario in India Major Learning Outcomes : The minigrid sector needs revamping in that most of the government operated minigrids stop functioning with the change in the governing party Details of Papers/patents : NA Brief Description of working environment, expectations from the company : The working environment was really constructive, the team helped a lot and they gave client facing quality work to the interns as well Academic courses relevant to the project : NA	2018-19-sem2

Company	Experience	Year
Publicis Sapient , Bangalore	Underwent 2.5 month intensive full stack development training , which was followed by a capstone project(building an internal tool using full stack development + microservice architecture which will be used across Publicis Sapient offices around the globe). Was placed into a live shadow project afterwards where we got to work on building and deploying Machine Learning models for specific use cases as needed by a leading client in the financial sector. Tool used (Development tools - H/w, S/w) : VS Code, Jupyter Notebook, Eclipse, Jenkins Objectives of the project : Developing an internal staffing application using Microservice Architecture + Designing, Training and retraining ML models for a client Major Learning Outcomes : Product Thinking, Full Stack development, Machine Learning Details of Papers/patents : Brief Description of working environment, expectations from the company : Casual & open work environment in general. No cubicles - everyone except the most senior leaders sit in the same open area. Everyone is encouraged(and expected) to walk up and share thoughts and solve problems together irrespective of designation. Specific experience varies quite a bit based on which project you are staffed into, since this is a service-based company Academic courses relevant to the project : Cloud Computing, Object Oriented Programming, AI & ML	2018-19-sem2

Company	Experience	Year
Publicis Sapient , Bangalore	The PS begins with a training program. The training program is for 45 days followed by a capstone project for the next 15 days, where we build something from scratch and deploy it. The training program is very school-like, going on from 8 in the morning to 5 in the evening with 30 minutes break for lunch. After which you also have like videos to watch at home. And regular quizzes are conducted on the topics being covered. Topics being covered for a full stack engineer are, HTML, CSS, JS, Java, NodeJS, ReactJS, AWS, Java Spring Boot, MongoDB, Jenkins, GIT. They also include soft skill training, agile practices and clean code sessions. The capstone project was to build a internal staffing portal for sapient and was deployed in AWS. Based on your performance in all of the above, you will be allotted to different accounts in Sapient. After which the work was lenient at least for me. I got to work on credit card fraud detection including the idea of mlops. We worked on two use cases. First, receiving real time transaction and predict whether it was fraudulent. Second, detect cases of money laundering or schemes done over a period of time. I mainly focused on building different machine learning models and also keeping in mind the idea of mlops. Overall a very good experience. The work-life balance non-existent during the first two months. This is not for you if you want a chill PS. Note: The training could change drastically since we were the first batch. Also your work depends on the account you get. Tool used (Development tools - H/w, S/w) : ReactJS, NodeJS, AWS, Python, Java Spring Boot, MongoDB, Jupyter Notebook, Keras, Flask Objectives of the project : Credit Card Fraud Detection Major Learning Outcomes : ML, MLOPS, Full Stack Developer, AGILE Details of Papers/patents : na Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Machine Learning, AI, DSA, DBMS	2018-19-sem2

Company	Experience	Year
Publicis Sapient , Bangalore	Internship started with 45 days of full stack training. It covered various technologies in front end and back end in breadth.Last 10 days of training was dedicated to develop a product which will be used within Sapient. It was developed with tools, methodology and interactions with various SMEs who shared expert views and practices followed in industry. After full stack training, shadow project followed. We were introduced to products (Adobe Experience Manager being one of the content management system) which live projects leveraged to optimise development, management of code, content. Management of various environment for software release, deployment of client requirements using agile methodology. Tool used (Development tools - H/w, S/w) : Training Java- Spring framework, MongoDB, Node JS, React JS, Jenkins, docker Shadow project Adobe Experience Manager, Spring reactive framework, Javascript ES6, Jenkins, docker Objectives of the project : Utilise AEM to deliver content management solutions to client Major Learning Outcomes : Micro services, Content management system Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Computer networks, Data Structures, Cloud computing	2018-19-sem2
Publicis Sapient , Bangalore		2019-20-sem2

Company	Experience	Year
Publicis Sapient , Bangalore	we had a hands on training for 1 month , after that I am with hiring team where i worked on IVR (Interactive Voice Response) on AWS cloud to check the interview scheduling and confirmation of candidate and on Automatic Resume score which scores the resume for a particular job description and suggest the best suitable one. Tool used (Development tools - H/w, S/w) : AWS, Java ,Python,spring boot. Objectives of the project : To automate the works of Hiring Team. Major Learning Outcomes : We got hands on how the AWS services works and what are the challenges in the process and learnt many new libraries in python. Details of Papers/patents : Brief Description of working environment, expectations from the company : We got the first hand experience of how MNC works and the culture of the sapient is very great , people are friendly and are approachable ,you will be directly be under some director level or senior manager and will guide through whole journey . Many new technologies will be learnt in journey .Company expects us to be thinking out box attitude and hunger for learning and dedicated to given work . As an intern they expected /pushed towards more learning and exploring the projects . Academic courses relevant to the project : OOPS,DSA,IR,Data Mining,Cloud computing .	2019-20-sem2
Publicis Sapient , Bangalore	Tech Stack - Spring Boot, React JS, Mockito, Logging Students are allotted different projects and they have to deliver PoCs based on the problem statement given. Training of one month in Java and related concepts. Tool used (Development tools - H/w, S/w) : Java, TDD, Maven, Spring, React, Node Objectives of the project : Build a recommender system Major Learning Outcomes : Full Stack and DevOps Details of Papers/patents : Brief Description of working environment, expectations from the company : Work culture is decent, and learning experience was good. Academic courses relevant to the project : OOP, DSA	2019-20-sem2

Company	Experience	Year
Publicis Sapient , Bangalore	I built a chat-bot that enabled one to perform different tasks like creating or updating a Jira issue, raising a request to DOJO, use Bamboo and it's features and get reports on the projects. I also helped build a resume parse which could extract information like colleges, work experience, skill etc from a resume, convert it all in numerical format and decide whether the individual is suitable for a particular role. Tool used (Development tools - H/w, S/w) : Java, RASA Framework, Python 3, React, PostgreSQL, AWS Objectives of the project : Build a one stop solution for Jira and DOJO Tools Major Learning Outcomes : The major learning outcome from the internship was that it gives you the experience of working on a deadline which we may not experience anywhere else. Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment is good. PPO is given if you clear a coding test, a technical round and finally an HR round. Academic courses relevant to the project : OOP, Machine Learning, Information Retrieval	2019-20-sem2
Publicis Sapient , Bangalore	IT, Software Development: My project was a large scale project where I was to develop a feature for the tool on which the whole team was working on each of its aspect. I worked on the design and the back-end development of the feature which was to be deployed for real time use. Tool used (Development tools - H/w, S/w) : Java, Eclipse IDE, Non relational database scripting, Spring Framework Objectives of the project : Develop Role Based Access Control Framework Major Learning Outcomes : The whole development process of a Software Details of Papers/patents : Brief Description of working environment, expectations from the company : Very collaborative and Interactive Team, encouragement to Perform your best and also helps in overall soft skill development of an individual, with various sessions conducted for the same Academic courses relevant to the project : OOP, DSA ,DBMS, ML(partially)	2019-20-sem2
PwC DIAC US Advisory , Bangalore		2018-19-sem2

Company	Experience	Year
PwC DIAC US Advisory , Bangalore	Tool used (Development tools - H/w, S/w) : Python,Alteryx,Excel, Tableau Objectives of the project : Predictive Modelling of B2B KPIs Major Learning Outcomes : Machine Learning & deep learning Models Applications Details of Papers/patents : Brief Description of working environment, expectations from the company : An excellent place for exposure to Business Analytics/ Mgmt consulting Academic courses relevant to the project : Machine Learning,NNFL	2018-19-sem2
PwC DIAC US Advisory , Mumbai		2018-19-sem2
PwC DIAC US Advisory , Mumbai	We worked on analytics and client projects majorly invloving making workflows in Alteryx and visualization in Tableau Tool used (Development tools - H/w, S/w) : Alteryx, Tableau, Python Objectives of the project : Client Projects Major Learning Outcomes : Analytics tools Details of Papers/patents : Brief Description of working environment, expectations from the company : Good Working Environment, Flexible Timings, No canteen, Smart Casuals Academic courses relevant to the project : None	2018-19-sem2
PwC DIAC US Advisory , Mumbai	I worked on Business Intelligence and Social Media Analytics Tool used (Development tools - H/w, S/w) : Alteryx, Tableau, Python Objectives of the project : Deliver the final deck for the Client Facing Engagement Major Learning Outcomes : Know about inner working of companies and how business consulting and advisory firms work Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : Company is good overall. It has flexible working hours which takes a hit on your work life balance Academic courses relevant to the project : None	2018-19-sem2
Qualcomm India Pvt Ltd, Bangalore		2018-19-sem2

Company	Experience	Year
Qualcomm India Pvt Ltd, Bangalore	I am currently working on riscv. Here at Qualcomm my work is to compare the riscv features with Arm Cortex M3. So initially I started with the high level difference and then gradually going to low level difference like the synthesis of both the RTL,dmips, code density, etc. Tool used (Development tools - H/w, S/w) : Synopsis Verdi, synopsis design compiler Objectives of the project : Is to compare riscv core from Eth Zurich to Arm cortex M3 Major Learning Outcomes : Learnt about synopsis design compiler, Verdi,unix. Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment is literally good. All employees have zeal to finish their work before the deadline. People here are really helpful. Academic courses relevant to the project : Embedded system design Vlsi design Vlsi test and testability Computer/vlsi architecture(both basic and advanced) Reconfigurable computing Microprocessor Digital electronics C and system verilog programming	2018-19-sem2
Qualcomm India Pvt Ltd, Bangalore	i have been assigned to the memory controller verification team.i have been doing the regular debug stuffs and verification in their environment.as part of ps they have given me scripting work to acquire the control and status register values.currently working on writing test cases for a new feature in the architecture. Tool used (Development tools - H/w, S/w) : verdi,vcs,excess on demand Objectives of the project : verification Major Learning Outcomes : system verilog,UVM,LPDDR,MEMORY CONTROLLER Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : VLSI test and testability, vlsi architecture,CAD	2018-19-sem2

Company	Experience	Year
Qualcomm India Pvt Ltd, Bangalore	i worked in the verification domain.specifically in the memory controller verification.during my PS i have worked on UVM test bench ,writing test cases for different scenarios and debugging the outcomes.i have did some scripting on shell for some automation's. Tool used (Development tools - H/w, S/w) : synopsis verdi,vcs. UVM,system verilog,shell scripting Objectives of the project : objective of the project is to bring up test cases for a feature that was recently added on the rtl and verify the feature is executed as per specifications. Major Learning Outcomes : the project helped me learn more about reusable verification test benches. system verilog and UVM concepts.it helped learn more about LPDDR4 and LPDDR5 sdram topologies .various interface protocols of AMBA were learned. Details of Papers/patents : Brief Description of working environment, expectations from the company : the working environment is good,the team mates are very helpful.the company expects us to grasp things fast and actively involve in the project.the team doesn't discriminate on the level basis ,see as similar to the full time employees and include as in work ,outings and discussions. Academic courses relevant to the project : vlsi test and testability, vlsi architecture, advanced vlsi architecture	2018-19-sem2
Qualcomm India Pvt Ltd, Bangalore	Interning in the analog team in Qualcomm has provided a lot of experience on how much, work, effort and knowledge goes into the development of a perfectly functioning chip that will soon be used in the order of billions. The analog team being at a different stature of the company is an excellent demonstration of the quality of knowledge required to survive in the industry. My work here was on an analog calibration module that will be part of the upcoming 5G chip. The work requires very good theoretical and problem-solving skills with a strong intuition for the subject. Side-by-side, one requires good interpersonal skills to convey their idea, explain their work and results, along with interaction with high-profile leaders in charge of the modules Tool used (Development tools - H/w, S/w) : Cadence Virtuoso Objectives of the project : Meet the specifications defined for the calibration block (Analog Design) Major Learning Outcomes : Analog IC design, Cadence Virtuoso, Layout design Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Analog electronics, Microelectronics, Electronics Devices.	2018-19-sem2

Company	Experience	Year
Qualcomm India Pvt Ltd, Bangalore	the entire work was aimed at functional verification of dram subsyatem.the work gave a good understanding of UVM and system verilog.work involves understanding design specification, bringing up verification plan,writing tests and sequences to verify the features and writing the coverage's for the tests. Tool used (Development tools - H/w, S/w) : vcs, synopsis verdi, system verilog Objectives of the project : verification dram subsystem, bring up of test cases. Major Learning Outcomes : project helped in learning system verilog. universal verification methodology .develop a reusable verification environment for a design under test. Details of Papers/patents : Brief Description of working environment, expectations from the company : the working environment is very good.people here are every cooperative and feel free to help at anytime.the company will help me develop my skills in different domains help in my overall development. Academic courses relevant to the project : CAD, vlsi architecture, vlsi testing and testability	2018-19-sem2
Qualcomm India Pvt Ltd, Bangalore	Tool used (Development tools - H/w, S/w) : verilog, UVM Objectives of the project : Learn the verification methodoloy Major Learning Outcomes : writing sequences and testcases in UVM. learning python and writing scripts, Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : VLSI test and testability, Computer Architecture	2018-19-sem2
Qualcomm India Pvt Ltd, Bangalore	Synthesis of RTL files using Design Compiler, Static Timing Analysis using PrimeTime and Tempus, Perl Script to analyze Tempus Reports, Python Script to parse Excel files Tool used (Development tools - H/w, S/w) : Design Compiler, PrimeTime, Tempus, Perl, Python Objectives of the project : Synthesis, Timing Analysis, Automation (Scripting using perl and python) Major Learning Outcomes : Gained experience in working with tools like Design Compiler, PrimeTime and Tempus. Learnt software languages like Perl and Python. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Analog and Digital VLSI	2018-19-sem2

Company	Experience	Year
Qualcomm India Pvt Ltd, Bangalore	I did power analysis for the CPU and also learnt the different techniques to reduce the power consumption both Static and Dynamic. Tool used (Development tools - H/w, S/w) : PTPX Objectives of the project : Power Analysis Major Learning Outcomes : Low Power Techniques Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : VLSI Design	2018-19-sem2
Qualcomm India Pvt Ltd, Bangalore	First task was to write an automation script for a chip initialization function for the existing architecture in System Level Notation(SLN), a language specific to the verification tool, Perspec System Verifier used in the project. The task was extended to cover regression testing of the entire System on Chip (SOC) and when that was done successfully, it was integrated in the existing model. Another was to analyse an existing system model and generate tests from it and lastly to debug test generation failures which arised from it. Tool used (Development tools - H/w, S/w) : Perspec System Verifier, Clearcase, QSAM Objectives of the project : Automation of Design Veification at the SOC level Major Learning Outcomes : Languages like SLN, Portable Stimulus Standard(PSS), Python, and basic understanding of Linux Details of Papers/patents : Brief Description of working environment, expectations from the company : Qualcomm provides a balanced environment wherein you have your work outlined to you with clear deadlines and along with that, there are a lot of extra curricular activities like Zumba, Yoga, Gym,Music or the Games room. There are team outings and lunches as well to get to know the people you work with. Also, other activities like Family Day, Cultural events like Rangotsav, and Marathons are organised regularly to lighten up the atmosphere. There are no restrictions on your time slots. You can work at your convenience, only thing is your work should be on time. Academic courses relevant to the project : VLSI Architecture, VLSI Test and Testability, language like System Verilog	2018-19-sem2
Qualcomm India Pvt Ltd. , Hyderabad		2018-19-sem2

Company	Experience	Year
Qualcomm India Pvt Ltd. , Hyderabad	My work was to do CPU profiling, on thread level and on the function level. I designed a API framework for profiling that can be used by my teammates and any other user to profile their code. It will help them to get better overview of their code and debug easily. Tool used (Development tools - H/w, S/w) : Perforce, Source Insight, C , DAN lab machine, Linux, Xtensa Xplorer Objectives of the project : To design a framework that can be used by my teammates and any user to profile their code and debug easily Major Learning Outcomes : I learnt about various threads and functions used in original LTE 4G code. I learned about profiling both on thread and function level. I also modified the original LTE 4G code. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working culture is awesome. No timing restrictions. All facilities are there. However the teammates are little busy so you won't always get them. Academic courses relevant to the project : OOP, Introduction to C, Operation Systems and microprocessor.	2018-19-sem2
Qualcomm India Pvt Ltd. , Hyderabad	Working on Company specific hardware Synthesis flow. Part of SoC Implementation team. Tool used (Development tools - H/w, S/w) : Synopsys DC Objectives of the project : Performing block level synthesis Major Learning Outcomes : Company related softwares and methodologies Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : CAD for IC design	2018-19-sem2

Company	Experience	Year
Qualcomm India Pvt Ltd. , Hyderabad	This project is part of a six-month internship at Qualcomm. It includes the development of LTE firmware for Qualcomm mobile chipsets. The first steps for the project consist of learning about the history of mobile communication standards, the working of the LTE technology and the Hexagon DSP architecture. The next step for the project was learning the development workflow. This was done by making changes to the code for logging various measurements. The final step was the actual development work on the firmware for a future modem release. Tool used (Development tools - H/w, S/w) : C Objectives of the project : Firmware Development Major Learning Outcomes : Learned about the Snapdragon modem development process. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Operating systems , C programming, Computer architecture	2018-19-sem2
QUANTIPHI , Mumbai		2019-20-sem2
QUANTIPHI , Mumbai	Explored various ways of reducing the inference and training time of a Machine learning model. Implemented Tensor flow serving and Tensor RT optimisations on company's various model. Tool used (Development tools - H/w, S/w) : Docker, python, keras, onnx , tensorflow Objectives of the project : Reducing the inference and training time of a Machine learning model. Major Learning Outcomes : Learned about the optimisation of various ML models Details of Papers/patents : Brief Description of working environment, expectations from the company : Not much facilities but the learning curve is high Academic courses relevant to the project : Machine Learning, Foundation of data science, AI	2019-20-sem2
Qubole , Bangalore		2018-19-sem2

Company	Experience	Year
Qubole , Bangalore	The work was on backend web development using rails. As a part of main project done , worked on GCP saas intergration. This included work on Gcp Pub/Sub and GCP marketplace integration. Tool used (Development tools - H/w, S/w) : Rails, Ember. Objectives of the project : Integrating Qubole's services with Google Cloud Platform via Market place Major Learning Outcomes : Rails, GCP integration, ember Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Object Oriented Programming, Networking.	2018-19-sem2
Qubole , Bangalore	A simple auto-scaling policy in the kubernetes cluster can be run as an application/pod in the cluster itself, which will upscale and downscale nodes based on the current available resource. Default Kubernetes auto-scaler does it reactively instead of proactively. What that means is, whenever a pod is requested and there is not enough capacity to run that pod, the auto-scaler brings up more nodes. This creates delay of about 5-10 mins for launching an application leading to bad User Experience. Thus we want a proactive auto-scaler which can foresee such conditions in advance and take appropriate actions. Also, A bug resulted in a large number of clusters being terminated. We need to be able to detect such situations and take preventive actions which was part of my mini project. Tool used (Development tools - H/w, S/w) : S/w: git, intellij, aws console, bitbucket Objectives of the project : Upscaling Downscaling of Kubernetes Cluster and Detect False Positives in Cleanup Worker Major Learning Outcomes : Overview of AWS and Kubernetes cluster Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Qubole is right in time of big data revolution. It is earning great customer traction making analytics as easy as pie. Office space is full of energy and great quotes - "talk is cheap, show me your code". Cafeteria on the top is full of food, Xbox, Table tennis, foosball and dart board. Each employee efforts are recognized by rewards and appreciation, creating healthy competition and growth. Academic courses relevant to the project : No relevant courses	2018-19-sem2

Company	Experience	Year
Qubole , Bangalore	I spent the first 2 months in in the Spark QA team. Worked on improving execution time and debugging efficiency of integration tests. Rewrote a number of automation tests to allow them to be executed parallely. Wrote a framework to rerun only failed tests of a previous regression run on Jenkins. After two months, I shifted to the Spark developer team. I successfully integrated a Redshift connector into Qubole's Apache Spark distribution. Wrote a service to track usage on different file formats in SparkSQL. Subsequently, i wrote scripts to ensure better packing of containers on Spark Clusters. Finally, i worked on improving the memory efficiency and reliability of broadcast joins in Spark. Tool used (Development tools - H/w, S/w) : Jenkins, IntelliJ, AWS, Git, Bitbucket, Apache Spark, Pytest, Amazon Redshift Objectives of the project : Integrate a redshift connector in Qubole's Apache Spark distribution Major Learning Outcomes : Big data, Cloud computing, Hadoop, Apache Spark, Distributed Computing, Amazon Redshift, Pytest, Writing production grade code(with unit & integration tests) Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Object Oriented Programming, Database Systems, Cloud Computing, Operating Systems	2018-19-sem2
Qubole , Bangalore	I worked on a new streaming service platform that the company was developing. Tool used (Development tools - H/w, S/w) : Rails, Ember, Pytest, Objectives of the project : End to end to feature development Major Learning Outcomes : Full Stack Development Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : DSA, OOP, DBMS	2018-19-sem2

Company	Experience	Year
Qubole , Bangalore	Worked on numerous aspects of development, maintenance and testing of a custom fork of the Apache Zeppelin Project. Tool used (Development tools - H/w, S/w) : Languages - Java, Python, Ruby, Scala. Tools and Frameworks - Maven, Selenium, Pytest, Ruby on Rails, etc Objectives of the project : Developing custom features / bug fixes for Zeppelin Major Learning Outcomes : Understood how large software projects are developed and maintained and the processes and tools employed in order to achieve that. Details of Papers/patents : - Brief Description of working environment, expectations from the company : Working environment is good and conducive to learning. Academic courses relevant to the project : -	2018-19-sem2
Qubole , Bangalore	Over the course of the five months at Qubole, I worked on various projects - some small some big - involving different challenges - some that will make the entire testing analysis faster and better and some on the development side of Apache Zeppelin. Three of the main project I worked on : UI Tests with Multi Threading and Account Parallelization, Introducing Checkstyle in the UI- Tests and Qubole Versioning of Apache Zeppelin. Tool used (Development tools - H/w, S/w) : Selenium, Java, Python, Cucumber/Gherkin/BDD(Testing), Apache Zeppelin, Objectives of the project : Improve the time taken by ui-tests to complete all the test scenarios, build Qubole Versioning of Apache Zeppelin Major Learning Outcomes : Learnt about how the testing works in such a big company over different large projects, how we build things over open source projects to provide customer with advanced tools. Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : The environment is quite chill. They provide Breakfast, Lunch and Lunch Reimbursement so that makes life a lot easier. The timing is not at all strict. You can come and go anytime you want. Work from Home and Out of Office can be easily applied. People are very very helpful if you face any difficulty (Thats the advantage of working in a startup) Academic courses relevant to the project : Object Oriented Programming (Java), DSA, DAA,	2018-19-sem2

Company	Experience	Year
Qubole , Bangalore	I worked with the Apache Spark team at Qubole. For the first 2 months, I worked with the Spark QA team. I helped to refactor and upgrade their testing framework and was able to drastically (>50%) reduce their regression times by increasing parallelism. Other than this, I worked on other new features and test fixes and optimizations. Post this, I spent the remainder of the PS working with the Spark Dev team. I worked on 2 epics related to optimizations for the Spark SQL Engine, in order to improve performance efficiency of Big Data queries. These involved both static and dynamic optimizations. Other than these epics, I worked on new features and fixes related to these epics. One of the optimizations was also open sourced and the PR was merged into Apache Spark (OSS). Tool used (Development tools - H/w, S/w) : Big Data, Apache Spark, Hive, Hadoop, Pytest, Distributed Clusters Objectives of the project : Improve efficiency of Apache Spark SQL engine by introducing new optimizations. Major Learning Outcomes : I gained in-depth knowledge of how Spark engine efficiently handles Big Data queries by executing them in parallel on clusters. Moreover, I learned how Spark SQL engine adds various optimizations to achieve significant performance gains over traditional Map-Reduce (Hadoop) and how as a developer one can contribute to reduce execution time or improve performance, even further. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : My colleagues at Qubole were extremely smart people with an in-depth domain knowledge, thus making PS-2 an incredible learning opportunity. They were incredibly helpful throughout and guided/mentored me through all the challenges I faced. Qubole also takes good care of you - your breakfast and lunch is sorted, they have snacks so that you don't have to work on an empty stomach; and most importantly, they have an incredible set of people (a lot of them are BITSians) working there. You'll get to learn a lot and have great fun while doing so. One thing that stood out for me is that, even as an intern, you are given similar responsibility as any full-time employee and your work has directly impact on the tools/services Qubole offers. This greatly aides one's learning, in my opinion, and also gives the satisfaction of doing important/meaningful work. Academic courses relevant to the project : Parallel Computing, Data Structures and Algorithms, Cloud Computing	2018-19-sem2

Company	Experience	Year
Qubole , Bangalore	Mentor Mentor comments: Students are interactive and knowledgeable. They are proactive in solving the tasks on time. Students should be from computer science discipline. Here they learn all the latest technologies related to data. Brief write-up on PS-II station : All the three stations are software based organizations. The general expectations from stations are students should be from computer science background (Qubole) and if not, they should have done electives or acquired enough skill sets on Python, Java, Database, Spring, Hibernate etc	2019-20-sem2
Qubole , Bangalore	I interned in the admin team. This team mostly takes care of the administrative responsibilities like account creation, account updating, assigning roles, policies and editions for accounts etc. My work involved backend development of qubole interface. My work was majorly on the improvements of account flow and other minor modifications Tool used (Development tools - H/w, S/w) : QIB(Qubole in box), Vagrant, Ruby On Rails, Postman, Sequel Pro Objectives of the project : Obectives involved modifying the account flow Major Learning Outcomes : Understood how the real industry works and learnt how to write industry level code Details of Papers/patents : None Brief Description of working environment, expectations from the company : The work environment was pretty friendly and the timings were very flexible. Academic courses relevant to the project : DBMS, OOP, DSA	2019-20-sem2

Company	Experience	Year
Qubole , Bangalore	I worked in ACM team which deals with clusters. I had to work on a new feature that had to be introduced. It was majorly related to handling AWS resources and configuring them to the required specifications to use the new feature. Other than this some basic work was always given at the side line. Tool used (Development tools - H/w, S/w) : Aws console, boto3, JIRA, BitBucket, python, ruby Objectives of the project : Completing the phase one of a new feature Major Learning Outcomes : Standard coding practises, team work, ruby, managing large code base and understanding it Details of Papers/patents : NA Brief Description of working environment, expectations from the company : The work environment here is very friendly. People are very helpful. As an intern, I think people had the right approach towards my expectations. But even though as an intern, your opinions are taken seriously and thought over before taking a step in doing something. Academic courses relevant to the project : OOPS, C Programming, DSA, DBS	2019-20-sem2
Qubole , Bangalore	I worked on optimizing and creating new ETLs(Extract Transform Load Pipelines) to check the status of other ETLs. Worked on Data Validation for the data sent to the customers after analyzing the cluster metrics and data. Tool used (Development tools - H/w, S/w) : Hive, Hadoop, Python, Scala, Java, Spark, Airflow Objectives of the project : Optimize and validate existing ETLs Major Learning Outcomes : Data Processing and Analytics for Big Data Details of Papers/patents : - Brief Description of working environment, expectations from the company : Working environment was free and flexible. My team members were helpful and very supportive. Lots of opportunities to learn at Qubole. The company works on cutting edge technology and encourages experimenting on new things. Academic courses relevant to the project : DBMS	2019-20-sem2
Qubole, Bangalore	Comments: Work done by the intern is really good up to the expectation and ability to accommodate all the requirements is commendable. Expectations from the interns would be to have basics of computer science, coding experience in C++ or JAVA. Industry is open to non-computer science students provided they excel in par with the others in terms of computer science domain and recent technology. Comments: Expectations from industry: Qubole: Big Data Tech, Hadoop ecosystems. Student	2016-17-sem2

Company	Experience	Year
Qubole, Bangalore	front end development. Tools used (Development tools - H/w, S/w): javascript, html, css, Ruby on Rails. Objectives of the project: Implemented select and run feature. When a part of query is selected, only selected portion is run as a separate query. Outcomes of the project: Made front end changes for this feature. Major Learning Outcomes: Ruby on rails and frontend technologies like javascript. Brief Description of working environment, expectations from the company: Working environment in Qubole is very good.The learning curve is high.	2016-17-sem2
Qubole, Bangalore	Worked in the Hive team so get to work on open source Hive code. Developed an API in python and java which collected metrics from different stages of Hive query processing and sent it asynchronously to different monitoring and analyzing agents. Wrote unit tests for the API. Tools used (Development tools - H/w, S/w): Java, Maven, Python, and Ruby. Objectives of the project: To collect metrics from different stages of Hive query processing. Outcomes of the project: Using the metrics anomalies can be found in the normal working of clusters. Major Learning Outcomes: Developed good coding practices in Java and Python. Used multithreading and synchronization. Learned about unit testing. Brief Description of working environment, expectations from the company: The working environment is good. Everyone is very helpful and supportive. You get the feel of working in a startup. I expected some challenging work but didn't find it challenging enough. They should give more challenging work to interns.	2016-17-sem2

Company	Experience	Year
Qubole, Bangalore	I worked in the spark team in Qubole. Following are the projects i have worked on: 1. Analysis of notebooks: Created a notebook to analyze all the notebooks across Qubole to answer useful questions like % of commands in scala, python, R; number of commands in the month; search for a keyword across all notebooks etc. 2. Spark job level metrics: Fixed the wrong values of job counters displayed at the end of every spark command. 3. Sending info about spark commands to metricsd: Recorded information about spark commands as a json and sent it to the metricsd web server. Tools used (Development tools - H/w, S/w): spark, notebooks. Objectives of the project: Fix/ improve functionalities in spark. Outcomes of the project: completed. Major Learning Outcomes: Big data engines (mainly spark), scala, git operations. Brief Description of working environment, expectations from the company: Working in Qubole for these 5 months was indeed bliss. Everybody was very co-operative and friendly right from day-1. Being a small company, I got to work directly with my team leads and from people across teams too, which we don't generally find in big companies. The projects I worked on were interesting and challenging and involved learning a lot about spark and scala. It wasn't only all work at Qubole. We did have company parties and outing too. The work, work culture and people are the reasons I am excited to work as a FTE in Qubole (yes, I did get a PPO from Qubole).	2016-17-sem2
Qubole, Bangalore	I worked on the development of ODBC and JDBC drivers for Qubole Data Services. I also worked on adding certain new features in the open source database engine Presto. Tools used (Development tools - H/w, S/w): IntelliJ, Maven, Git, Visual Studio, Linux Knowledge, Java, C++. Objectives of the project: Add features to ODBC, JDBC drivers and Presto. Outcomes of the project: Add features to ODBC, JDBC drivers and Presto. Major Learning Outcomes: How big data engines work at the backend, using Git, using Maven. Brief Description of working environment, expectations from the company: Qubole has one of the best work environments and cultures among all places I have been. The working hours are pretty flexible and people here are highly knowledgeable and helpful. Fun to work place.	2016-17-sem2

Company	Experience	Year
Qubole, Bangalore	First I did little bit of marketing, after that I moved to data analytics and I am learning data warehousing and engineering. Tools used (Development tools - H/w, S/w): PostgreSQL, Apache Airflow, Amazon Web Services - Red shift, S3, Elastic Beanstalk. Objectives of the project: Relational Database Management. Outcomes of the project: Thorough understanding concepts of Relational Databases. Major Learning Outcomes: Data Analytics, Data Warehousing, Data Engineering. Brief Description of working environment, expectations from the company: Good place to work, it is a Bitsian Startup.	2016-17-sem2
RACEnergy , Hyderabad		2019-20-sem2
RACEnergy , Hyderabad	My work involved firmware development for ARM microcontrollers using C. I developed and used driver files for various STM32 microcontroller peripherals. One of my projects was to develop firmware for microcontrollers in smart battery packs. I also developed a PCB using Altium Designer for an ideal diode circuit with load switching. Tool used (Development tools - H/w, S/w) : Keil IDE, Altium Designer, C programming, Git Objectives of the project : Firmware Development and testing for ST microcontrollers; Ideal Diode Circuit Design Major Learning Outcomes : Learnt about ARM M3/M4 architecture, Firmware development using C, PCB Design Details of Papers/patents : Brief Description of working environment, expectations from the company : Being a startup the work environment is flexible within deadlines. Employees are very friendly and helpful. My mentor provided constant support when I was stuck and guided me in the right direction. Academic courses relevant to the project : Embedded Systems Design, Computer Programming, Data Structures and Algorithms	2019-20-sem2
Ramboll India Pvt. Ltd. , Gurgaon		2018-19-sem2

Company	Experience	Year
Ramboll India Pvt. Ltd. , Gurgaon	Work scope is mainly structural design of structures in U.K. as I was associated to the UK team. I was assigned a project to design the Auditorium in Swansea UK. Tool used (Development tools - H/w, S/w) : Structural analysis tools as: CSI SAFE, TEDDS, AUTOCAD Objectives of the project : Design of Swansea Central Arena Major Learning Outcomes : Practical application of Structural analysis and design. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is very friendly and helpful, I was given full support to understand their working culture and adapt accordingly. Academic courses relevant to the project : Advanced Structural analysis and Design of concrete structure	2018-19-sem2
Reflexis Systems India Pvt Ltd. , Pune		2018-19-sem2
Reflexis Systems India Pvt Ltd. , Pune	I was assigned to team advance analytics which was takes with developing tools for analysing and improving work force using advance data science and machine learning techniques. I was assigned the Frontend part of the product called EPP. Initial few weeks I concentrated on learning the technologies used in the project i.e. ReactJS, Java spring , D3 etc. Later I looked after refactoring and debugging of code. some of the tasks I completed are : I changed parts of code that used victory charts to d3.js and also refactored old d3.js code. I also added new page for displaying some specific metrics. Tool used (Development tools - H/w, S/w) : ReactJS, D3.js Redux Objectives of the project : Adding new feature and debugging old features on the webapp Major Learning Outcomes : Frontend web development Details of Papers/patents : Brief Description of working environment, expectations from the company : Reflexis is a good place to work. The timings are flexible. Also the colleagues are helpful and guides you in learning in every possible way they can. The work given to interns is not trivial nonconsequencial . We could contribute to a project in production. Academic courses relevant to the project : data structures and algorithms, computer programming	2018-19-sem2
Reflexis Systems India Pvt Ltd. , Pune		2019-20-sem2

Company	Experience	Year
Reflexis Systems India Pvt Ltd. , Pune	Worked on time series forecasting using deep learning methods alongside basic NLP elementary data analysis Tool used (Development tools - H/w, S/w) : Python, pandas , jupyter notebook Objectives of the project : Develop a model for time series predictions Major Learning Outcomes : Learnt about deep learning methodologies Details of Papers/patents : Brief Description of working environment, expectations from the company : Really relaxed and open environment with no pressure Academic courses relevant to the project : None	2019-20-sem2
Reflexis Systems India Pvt Ltd. , Pune	My project gives details regarding implementation of features like Aggregation Query, Purge Service, Logging, Testing in the form of API for Employee Performance Platform developed by Reflexis from tools like Spring boot, JAVA8, MongoDB Tool used (Development tools - H/w, S/w) : Spring boot, JAVA8, MongoDB Objectives of the project : Make services and features for Employee Performance Platform Major Learning Outcomes : Learnt to work on a big project as well learnt lot of new technologies and how they are used in industry. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is very good. There is a great work life balance. Company and their employees are great too. Everything is great. Academic courses relevant to the project : Object Oriented Programming	2019-20-sem2

Company	Experience	Year
Reflexis Systems India Pvt Ltd. , Pune	Was assigned to the Analytics team with my mentor based in the US. Worked extensively in the domains of Natural Language Processing, Deep Learning and Time Series Forecasting. The first project involved using various ML techniques combined with NLP to conclude whether we can predict the delay of project execution at the store level using comments and other project relevant information internal to a company. The findings of this project were part of the CEO's keynote during Reflexions 2019, the company's annual product showcase event. The second project involved developing various Deep Learning Models for Time Series Forecasting. This involved developing and experimenting with various types of ResNets, GRUs, clustering of time series using Dynamic Time Warping and consequently using the clusters for building super multi-unit models. Also briefly worked in the area of ABTesting. Tool used (Development tools - H/w, S/w) : Python, Jupyter, Spark Objectives of the project : To conclude whether comments can be used to predict delays in store-level project execution and developing deep learning models for time series forecasting Major Learning Outcomes : Major experience in predictive analytics, Natural Language Processing and extensive research and development of Neural Networks for Time Series Forecasting Details of Papers/patents : Brief Description of working environment, expectations from the company : Comfortable working environment. The office is not very big and the facilities are a bit lacking as compared to most medium-big companies. The amount of work you get depends a lot on the team you are allocated. In my case I was allocated a team that was developing a new product which also happened to be the Analytics team and a mentor who was a Data Scientist in the US team due to my past experience in the domain. This gave me ample opportunities to work on a researchbased project in the domain of my choice. Work timings are flexible for most of the part unless you have meetings scheduled with someone based in the US, in which case you might have to stay late for most of the time. Academic courses relevant to the project : Neural Networks and Fuzzy Logic, Information Retrieval, Data Mining, Machine Learning, Foundations of Data Science	2019-20-sem2
Reliance Jio , Mumbai		2018-19-sem2

Company	Experience	Year
Reliance Jio , Mumbai	building and training various object detection and CRNN models used for camera based automated parking system, number plate recognition, various other security violation detection. Tool used (Development tools - H/w, S/w) : Frameworks : Tensorflow, Pytorch. Programming languages : python and its libraries(numpy, etc.), C++. System/Hardware configs : Nvidia P4 GPU's, 20 cores intel 8th generation i7 processor, 64GB RAM. Objectives of the project : Jio Parking : Building a smart parking system based on computer vision and deep learning which can be used in various commercial offices, shopping complex, schools, etc. || Jio ANPR : Building an automatic number plate recognizer which can be used for surveillance in corporate offices and housing societies. Major Learning Outcomes : learned to use frame works like Pytorch, Tensorflow and implemented various optimization techniques Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : NNFL, ML, Image Processing and pattern recognition, DSA, OS, OOP.	2018-19-sem2
ReportGarden Technologies Pvt. LTd. , Hyderabad		2019-20-sem2
ReportGarden Technologies Pvt. LTd. , Hyderabad	I was the part of the Migration team which had the task to shift all the companies clients onto their new Platform from the old one as the company was acquired by US based Tap-clicks. The work wasn't much intense as they already had the new platform somewhat ready , primary work included finding major bugs and testing the new platform through recreating clients profile Tool used (Development tools - H/w, S/w) : SMA , Reportgarden App , SQL , Excel Objectives of the project : Migrating Clients and recreating their data from Old Reportgarden app to new SMA app and rectifying few minor bugs. Major Learning Outcomes : basics of SQL , SEO Details of Papers/patents : Brief Description of working environment, expectations from the company : The people are friendly and there are frequent fun activities going on . You can also find few Bitsians as employees and have conversations. Academic courses relevant to the project : OOP , OS	2019-20-sem2

Company	Experience	Year
Rivigo Services Pvt Ltd, Gurgaon	Comments: Students are involved in business development activities throughout the internship. Students have actively involved themselves in developing new strategies to optimize procedures and expand our business rapidly. Interns have made significant contributions to our business and supported us as full time employees. We look forward to have interns who are proactive, creative, and eager to learn new stuff and have excellent communication skills. Comments: Expectations from industry: Rivigo Services Pvt. Ltd. Founded in 2014, is an Indian supply chain and logistics company that provide logistics services all across the country. Organization uses a unique relay model which puts them ahead of their competitors. Rivigo offers profiles in operations management and software development. Interns in operations management are expected to develop new strategies to optimize and rapidly expand delivery services across PAN India. Interns in Software development are expected to automate vehicle tracking, which helps management in appropriate decision making. They are exposed to latest technologies like Java Springs, GIT, SQL and Python etc. Organization prefer to have interns with knowledge of operations management, Object oriented Programming, Databases and Data Structures etc. Student	2016-17-sem2
Rivigo Services Pvt Ltd, Gurgaon	My work involved establishment of the franchise model. I was lucky to get the chance to be a part of the team from the initial month of the project. The role varied a lot, which was a good learning experience. The major part of the role was in sales, which included both lead generation and lead closure. Over all it was a good experience, with a good balance of start-up hustle culture and corporate work environment. The experience at Rivigo varies from team to team, but overall work environment is output driven presenting a lot of learning opportunity. Objectives of the project: Establishment the franchise network for part truck load service. Outcomes of the project: Better penetration in the local micro-markets. Major Learning Outcomes: Opportunity to hone my leadership and management skills. In developing skills for B2B sales. Brief Description of working environment, expectations from the company: The work environment is output driven and competitive. Includes hustling as in a start-up and professionalism as in a corporate work environment.	2016-17-sem2

Company	Experience	Year
Rivigo Services Pvt Ltd, Gurgaon	Worked on increasing delivery serviceability across India by partnering up with small and medium regional logistics companies. Launched the Network Partner program state wise after careful audits of the prospective partners and a very detailed and in-depth analysis of the entire handover process. Objectives of the project: To make all of India serviceable for delivery. Outcomes of the project: Pan-India plan prepared and 2 states launched successfully. Major Learning Outcomes: Vendor on boarding, operations excellence, holistic planning and problem solving approach. Brief Description of working environment, expectations from the company: The working environment is kind of intense. This isn't your usual internship. We are treated the same way as employees and are entrusted with the same amount of responsibility. You are responsible for your own tasks and no one spoon feeds you or walks you through things. This is a company which requires you to think and act like an entrepreneur and the environment will either leave you frustrated because of the high expectations from you or you'll get to learn a lot and come out as a much better individual.	2016-17-sem2

Company	Experience	Year
Rivigo Services Pvt Ltd, Gurgaon	I worked on two projects. First project was full stack web development in which I added numerous new features in existing web apps used by the organisation. This enabled me to learn basics of UX, back-end and database management. It was a good and diversified learning experience for me. Second project involved data-analytics and reporting in which I used python and many python packages. It was an interesting project to work on and helped me learn various techniques in data-analytics. Tools used (Development tools - H/w, S/w): Java Spring, Javascript, Python, AngularJs and MySQL. Objectives of the project: Add new features to existing web apps. Analyze GPS data and process it to draw useful insights. Outcomes of the project: New features for Driver ERP web-app. automated techniques to analyse GPSdata and draw insights. Major Learning Outcomes: Full stack web development. Database management and data analytics. Brief Description of working environment, expectations from the company: Overall the experience was good. My colleagues were very helpful and this enabled me to learn many things from them and implement them in my projects. The work was a little unstructured but in turn it taught me to take full ownership of my project. You can expect a little hectic work environment and more than one project during the internship but it is a good learning experience.	2016-17-sem2
Rivigo Services Pvt Ltd, Gurgaon	Worked on multiple web development projects. Worked as a full stack developer. Learning experience was good and diverse. I was able to learn basics of both UX development and back-end development. Tools used (Development tools - H/w, S/w): Java Spring, AngularJS. Objectives of the project: Web Development. Outcomes of the project: New features in web apps. Major Learning Outcomes: Full stack web development. Brief Description of working environment, expectations from the company: I enjoyed working at Rivigo. The work was diverse so was the learning. There is lot to learn and the people here are helpful.	2016-17-sem2

Company	Experience	Year
Rivigo Services Pvt Ltd, Gurgaon	Primarily involved in business development, strategy and sales for the retail and franchise business verticals within the organization. Tools used (Development tools - H/w, S/w): MS Excel, Sales force, In-house tech platform (Zoom Tech). Objectives of the project: To use analytics as a tool to track sales and develop insights to improve on current sales performance. Outcomes of the project: Achieved the desired results with rapid growth in the retail and franchise models. Major Learning Outcomes: Use of Excel, importance of data and analytics to drive and develop business. Brief Description of working environment, expectations from the company: The working environment within the organization is very fast-paced and competitive, and requires a lot of mental activity to be efficient in one's task. The organization is filled with smart people from various reputed colleges who have earlier worked in respected companies. It is a place filled with great people, which makes it really interesting to work.	2016-17-sem2
Rivigo Tech , Gurgaon	Comments: Expectations from industry : Rivigo Services (Tech and Non Tech): Rivigo Services Pvt. Ltd., founded in 2014, is an Indian supply chain and logistics company that provide logistics services all across the country. The organization uses a unique relay model which puts them ahead of their competitors. Rivigo offers two roles as interns: Software developer and Business analyst Role. Interns in software development role are exposed to web development, full stack development, Android App development and maintenance. They get to work on latest technologies like Java Springs, Android, React, Redux, Node js and Python etc. Interns in Business analyst role are expected to product analysis, make live reports from data using SQL and Periscope and assist product managers to contribute to product vision. It involves surveying product requirements, verifying the viability of solution framework from various teams and preparing technical specifications for technical team. In technology division, organization prefers to hire students with excellent programming and problem solving skills. Students should have excellent communication skills and analytical ability for business analyst role. Oyo Rooms(Tech and Non Tech): OYO Rooms, commonly known as OYO, is India's largest hospitality company, consisting mainly of budget hotels. Oyo Rooms offers multiple profiles in technology, product management and business development. Interns in technology at Oyo rooms have worked on front end development, back end development, developed dashboards	2018-19-sem2

Company	Experience	Year
	for pricing metrics, implemented elastic search and also involved in unit and integration testing. Technologies include Hive, superset, Java, Maven, Ruby on rails and JUnit etc. Interns in business development are expected to maintain relation with channel partners and on board new properties. For tech role, organization prefers to have interns with excellent programming skills. For non tech roles like business development and product management, students should have good analytical skills and excellent communication skills. OfBusiness, Gurgaon: OfBusiness is technology driven start up that provides SME finance and SME business loans with flexible, hassle free and easy documentation. Organization offers profiles in software development. Interns have worked on web development, data preprocessing and character recognition to read captcha's using machine learning techniques. Technology stack includes python, java, tensor flow and keras etc. Organization look forward to hire interns who have sound knowledge of data structures and have excellent programming skills.	

Company	Experience	Year
Rivigo Tech , Gurgaon	I got to work on front end web development project, which was to design a portal for existing feature for their business team, used for internal work flow. The project was exciting as I got to learn business workflows as well besides web development. I had to learn the basics of UI web dev with React+Redux, which is a very popular skill set for those who want to enter web dev industry. I also got to work on lot of web page optimization and revamp sub-projects and a migration project which helped me to expand my knowledge in web dev. These tasks were interesting as I was able to dive through a pool of tech stacks and javascript libraries and also got to implement them. It was a great learning experience in terms of learning Web dev, Web page optimization, code maintenance and development. Tool used (Development tools - H/w, S/w) : React JS and Redux + Angular JS + Redux + Javascript libraries Objectives of the project : Day to Day maintenance and enhancement of Front end UX, Keeping the portals updated to the current versions of tech stack, inclusion of new on-boarding features based on business requirement, seamless assistance to the users by improving web page response times Major Learning Outcomes : Front end Web Development, Optimization of UI/UX Details of Papers/patents : - Brief Description of working environment, expectations from the company : Work Environment : The work environment is pretty chill and everyone in the team in approachable and helpful. I got to work on different front end technologies and development of interfaces end to end. It was a good learning experience, both in terms of adding value to the organization and upgrading my own skill sets. You are given ownership of the tools and tech stack and you have freedom to add more value to the existing work stack. All in all, a decent work experience and good exposure to dynamic start-up work culture. Expectation: They do expect to catch you up soon and they projects are time bound so you have to put in extra work hours. Work culture is a bit hectic but it is good for a fresher as you get to learn and implement a lot. Academic courses relevant to the project : OOPS, Basics of Web Dev, Some DBMS and basics of DSA	2018-19-sem2

Company	Experience	Year
Rivigo Tech , Gurgaon	Fast-paced startups like RIVIGO put loads of responsibility on their employees. So there is always an opportunity for learning and growth. You get to learn new things each and every day by the progress and mistakes you make in the process.The overall objective of the project was to do Backend Software Development for GOAL APP(An internal app for RIVIGO field agents) as per business requirement by providing various software solutions using RESTFUL APIs using Spring Boot and Hibernate Frameworks.sprint. Making new API's for new sections and improvising existing API's as per product requirement are among the two major task in the project. Our backend application is written in java using spring boot framework. There are primarily two application servers - API server and scheduler server along with storage and cache in RDS (MySQL), MongoDB and Redis. Tool used (Development tools - H/w, S/w) : Spring boot MVC, Hibernate, JDBC, Mysql, MongoDB, Elastic search, Aws cloudsearch, Aws SQS, Aws SNS. Objectives of the project : The overall objective of the project was to do Backend Software Development for GOAL APP(An internal app for RIVIGO field agents) as per business requirement Major Learning Outcomes : Fast-paced startups like RIVIGO put loads of responsibility on their employees. So there is always an opportunity for learning and growth. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Operating Sysytems, Object oriented programming, DSA	2018-19-sem2
Rivigo Tech , Gurgaon	Backend development for demand team of rivigo, most of my work was focused on developing features to improve user experience. Tool used (Development tools - H/w, S/w) : Java, spring, MySQL, mongo, redis Objectives of the project : Develop scalable software, to improve user experience. Major Learning Outcomes : Development of highly scalable and resilient codebase. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : DSA, OOP	2018-19-sem2

Company	Experience	Year
Rivigo Tech , Gurgaon	building scalable software on server-side and browser-side Tool used (Development tools - H/w, S/w) : AngularJS, Spring Framework, ElasticSearch, MySQL, MongoDB, Objectives of the project : Software Development Major Learning Outcomes : teamwork, writing scalable code, building softwares with a good user experience Details of Papers/patents : N.A. Brief Description of working environment, expectations from the company : - Academic courses relevant to the project : DSA, OOP, OS	2018-19-sem2
Rivigo Tech , Gurgaon	Back-end software development involving data persistence with Spring,Spring Boot,Hibernate,HikariCP in Java 8. Tool used (Development tools - H/w, S/w) : IntelliJ, DataGrip, Mysql, Pgsql, MongoDB, Spring, Kafka, Kafka streams Objectives of the project : Developing useful features like tracking,blocking services,fraud check services . Major Learning Outcomes : Java 8 streams,Mysql,Pgsql,Kafka,Kafka streams Details of Papers/patents : Brief Description of working environment, expectations from the company : Very supportive peers.Competitive and fast pace working environment involving lot of learning. Academic courses relevant to the project : OOP,DSA,CP	2018-19-sem2
Rivigo Tech , Gurgaon	Comments: Expectations from industry : Rivigo Services (Tech and Non Tech): Rivigo Services Pvt. Ltd., founded in 2014, is an Indian supply chain and logistics company that provide logistics services all across the country. The organization uses a unique relay model which puts them ahead of their competitors. Rivigo offers two roles as interns: Software developer and Business analyst Role. Interns in software development role are exposed to web development, full stack development, Android App development and maintenance. They get to work on latest technologies like Java Springs, Android, React, Redux, Node js and Python etc. Interns in Business analyst role are expected to product analysis, make live reports from data using SQL and Periscope and assist product managers to contribute to product vision. It involves surveying product requirements, verifying the viability of solution framework from various teams and preparing technical specifications for technical team. In technology division, organization prefers to hire students with excellent programming and problem solving skills. Students should have excellent communication skills and analytical ability for business analyst role. Oyo Rooms(Tech and Non Tech): OYO Rooms, commonly known as OYO, is India's largest hospitality company, consisting mainly of	2018-19-sem2

Company	Experience	Year
	budget hotels. Oyo Rooms offers multiple profiles in technology, product management and business development. Interns in technology at Oyo rooms have worked on front end development, back end development, developed dashboards for pricing metrics, implemented elastic search and also involved in unit and integration testing. Technologies include Hive, superset, Java, Maven, Ruby on rails and JUnit etc. Interns in business development are expected to maintain relation with channel partners and on board new properties. For tech role, organization prefers to have interns with excellent programming skills. For non tech roles like business development and product management, students should have good analytical skills and excellent communication skills. OfBusiness, Gurgaon: OfBusiness is technology driven start up that provides SME finance and SME business loans with flexible, hassle free and easy documentation. Organization offers profiles in software development. Interns have worked on web development, data preprocessing and character recognition to read captcha's using machine learning techniques. Technology stack includes python, java, tensor flow and keras etc. Organization look forward to hire interns who have sound knowledge of data structures and have excellent programming skills.	
Robert Bosch Center for Cyber Physical Systems ,	Bangalore	2018-19-sem2

Company	Experience	Year
Robert Bosch Center for Cyber Physical Systems ,	The domain of the project is smart cities. A smart city has many sensors which collect data. This data is stored in resource server. We are creating the catalogue server - a list of all servers supporting complex queries and CRUD operations. The user can discover the desired sensors and then query the resource server for its data. Thus, enabling data discovery. Tool used (Development tools - H/w, S/w) : Java , Vertx framework, MongoDb, Json schemas Objectives of the project : The objective of the project is to develop India Urban Data Exchange (IUDX), for identifying assets and data resources in Smart Cities. Major Learning Outcomes : Areas:Web development, Database Management System. Tools: Java, Vertx, MongoDB, JUnit, Jmeter Details of Papers/patents : Brief Description of working environment, expectations from the company : The company has many research projects and is filled with PhD students and professors. This enables one to be involved in projects of various domains and learn from them. The timings are flexible and the mentors are very helpful. The deadlines are set such that we can complete the task comfortably before it. Academic courses relevant to the project : Object Oriented Designing, DBMS, DSA	2018-19-sem2
Robert Bosch Center for Cyber Physical Systems ,	The next phase of smart cities implementations should focus on data empowerment. The current smart city implementations are unable to satisfy this need efficiently, due to the proprietary and ad-hoc nature of the interfaces and their implementations. The India Data Urban Exchange (IUDX) project, supported by the Ministry of Housing and Urban Affairs, Govt. of India, aims to address this gap, by creating a reference architecture and technical specifications for interconnecting various IT systems of different government departments as well as external organizations. Our work focuses on implementing the standards agreed upon by IUDX. Tool used (Development tools - H/w, S/w) : Java, Vert.x, MongoDB, Junit, Maven Objectives of the project : Implementing a state of the art system that demonstrate the ability of the standards finalised by IUDX Major Learning Outcomes : System Design. Project workflow. Real time database management system Details of Papers/patents : None Brief Description of working environment, expectations from the company : Flexible timing. Focuses more on outcome of the work rather than time spent. Good mentor ship. Academic courses relevant to the project : OOP, DBMS	2018-19-sem2

Company	Experience	Year
Robert Bosch Center for Cyber Physical Systems ,	Bangalore	2019-20-sem2
Robert Bosch Center for Cyber Physical Systems ,	Project allocated here is development of text search module on IUDX catalogue. Text search is an important feature to help the customer search through catalogue for required data. MongoDB, a database management software, is used for this purpose. Vertx is a tool used to host server to help MongoDB perform search operations. Text search was implemented using Vertx based on MongoDB. Tool used (Development tools - H/w, S/w) : MongoDB, Vertx, Java, OpenStreetMap Objectives of the project : Development of Text Search Module for IUDX Catalogue Major Learning Outcomes : Applications of database management systems, MongoDB, Vertx Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment is good. Mentor was helpful in guidance and regarding clarification of doubts. Every person is very helpful regarding problems faced. Academic courses relevant to the project : Database management systems, OOP	2019-20-sem2
Robert Bosch Center for Cyber Physical Systems ,	The work was related to Computer Vision and Deep Learning. I had to implement a YOLOv3 model in tensorflow, and optimize the whole model for deployment using nvidia's inferencing library, i.e. TensorRT. Tool used (Development tools - H/w, S/w) : H/W - PC w/ RTX 2080 S/W - Python, Tensorflow, nVIDIA TensorRT Objectives of the project : Deployment of the Traffic Analytics Model Major Learning Outcomes : Practical usage of Deep Learning, How to tackle different problems faced during training phase of the model, Accelerating inference with TensorRT Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment is very nice. People are encouraging and there are no fixed timings. Since, it's more of a research lab, the scope of learning is very high. Academic courses relevant to the project : Neural Networks and Fuzzy Logics, Machine Learning	2019-20-sem2
Sabre Holdings (Formely Sabre Travels), Bangalore		2016-17-sem2
Sabre Holdings (Formely Sabre Travels), Bangalore	The QIK Developer is a toolkit built on Java that is used to build desktop applications in particular for the airline industry. The application built by Sabre called Interact, is a point of sale (POS) application used by airline/travel agents	2016-17-sem2

Company	Experience	Year

for booking tickets for passengers and also used at the airports for performing operations like check-in, bag-tag printing, boarding-pass printing, selling in-flight services to name a few. Interact supports 4 languages- English, Portuguese, Russian & Spanish. There is a Translations table utility in QDT which stores all the English texts displayed in the application and their translations. This table has buttons to import & export '.properties' files which contain all English texts and their translations. The main project undertaken during the internship was about making the process of filling this Translations Table easier and less time consuming. It was achieved by writing a program in Java which wrote the data containing the translations into '.properties' files which can be imported into QDT. This project is very useful to developers in team Interact because this program will automate the process and bring down the effort and time needed to add the translations in QDT. As shown in the test run included in the report - all 4 sample strings considered were behaving as expected. The success rate of the program is 100%. Other than the time spent on main project, remaining time was spent in giving assistance to the team in both development and testing tasks, in their routine projects (projects to enhance the application further). Tools used (Development tools - H/w, S/w): Core tools - QIK Developer, Java, and Eclipse IDE. Utility tools - Apache SVN, Tortoise SVN, Maven, JIRA, RALLY (by CA Technologies), HP ALM, etc. Objectives of the project: 1. Understand the challenges in the process of manually filling the translations table in QDT and propose an alternate process which is less time consuming. 2. Learn to use the 'QIK Developer' tool (QDT) used by Team Interact and assist the team in their various projects by performing both development tasks as well as testing tasks as per the requirement. Outcomes of the project: 1. In the first month of the internship, a very extensive training was given by team Interact for imparting knowledge of- the airline domain, the product- Interact application, the QIK Developer tool, defect management tool- ASJIRA, software version management tool- Apache SVN, Sabre Global Test Engineering (GTE) process, software release management, AGILE methodology of Software development, SCRUM framework and ceremonies, etc. 2. After 'QIK Developer' tool (QDT) was learnt, the team was given assistance in various development and testing tasks as part of team's projects. 3. Then the process of manually filling the translations table in QDT and its challenges were understood in-depth and an

Company	Experience	Year
	alternate process was proposed and executed. The Java code has been written and re-written multiple times to reach the present functionality. As shown in the test run included in the report - all 4 sample strings were behaving as expected. The success rate of the program is 100%. Major Learning Outcomes: 1. I learnt development in 'QIK Developer' tool which is primarily used for making UI. Although there is a limited set of companies in Airline domain that need QIK developers, but if you are good at QIK, you will be valued more than the average engineer (as is the case with any uncommon technology for which engineers are hard to find) 2. I learnt the working of and how to setup version control systems- Apache SVN in my case. Brief Description of working environment, expectations from the company: The working environment is just satisfactory. The perks/benefits here are lesser than what you get at NVIDIA/Wallmart and alikeNo cab service, no free lunch and no company outings. But that doesn't mean, you won't party for free with your team. People are very friendly and you will be given good training and you will be treated with respect, especially if you are from a tier-1 college.	
Sabre Holdings (Formely Sabre Travels), Bangalore	Automated testing of Sabre GDS related products like flight ticketing, exchanges and refunds. Tools used (Development tools - H/w, S/w): HP ALM, UFT/QTP, VB Script. Objectives of the project: Create automation scripts for regression testing. Outcomes of the project: Automation scripts handed over to Central Automation Team. The team will run the scripts for regression testing before new releases and for sanity testing. Major Learning Outcomes: Quality Assurance, Testing, Soft Skills, Agile Methodology. Brief Description of working environment, expectations from the company: The work environment is very productive. The employees are approachable for any help or guidance. Projects are versatile.	2016-17-sem2

Company	Experience	Year
Sabre Holdings (Formely Sabre Travels), Bangalore	The task was to count the test cases from the ALM, which is a tool used by sabre for executing test cases. This involved understanding and parsing the folder structure of the given test case so as to identify unique test cases and return the count of passed, failed and blocked test cases. The test case information was retrieved from ALM using SQL queries. • The task was to write a script in Java to generate, trigger and validate the PNR Gov message from Java. This involved using a Sabre native framework known as test Kit which has Jars and dependencies which can be used to create a PNR from within java using minimal code. The basic flow was that the java script would create a PNR and trigger the PNR Gov message from within it. I had to write the code to fetch the PNR Gov message from the log where it had been generated and to validate it with the information that had been provided by the user. Tools used (Development tools - H/w, S/w): Java, Test Kit, ALM and Django. Objectives of the project: Automation Scripting to make testing easier. Outcomes of the project: Built some tools which made the testing for the PNR Team easier and hassle free. Major Learning Outcomes: Learn a great deal of Django and Java and Testing tools. Brief Description of working environment, expectations from the company: Working environment was great and the team was very helpful which made learning easier and fun.	2016-17-sem2
Sabre Holdings, Bangalore	I got the opportunity to work on big data technologies to develop a recommendation engine for GetThere, Sabre. The team is very helpful and the work is very interesting since I got to work on many new technologies. I got introduced to agile methodology of sdlc which gave me the exposure of project - sprint planning and estimations. Overall it is a good experience in sabre. You get lot of exposure of the company and also corporate work culture.	2015-16-sem2

Company	Experience	Year
Sabre Holdings, Bangalore	I have worked at Sabre Technologies, Bangalore as an intern with the Self-Service Checkin team and my overall PS2 experience was great and more than anything that I expect from a PS station. I was not just well trained technically but was also exposed to the high working standards of the company, the highly qualified and experienced employees. My work here is to write automation tests for the JSON services which is going to be launched soon to various airlines. As a part of my internship I worked on iterations testing, regression testing and the refactoring of over 200 test scripts. The same required knowledge in Object oriented programming and REST APIs, about which I was made to learn with a proper guidance from my team members. All the employees were very friendly and were ready to help me in all the possible ways. I also had access to the weekly meetings of the whole team where my suggestions were welcomed. So I would say this is a very huge opportunity which will not just add to your resume but also to your professional life going forward and I feel fortunate to having experienced it.	2015-16-sem2
Sabre Holdings, Bangalore	My PS2 station is Sabre Holdings, Bangalore. Being a dualite, I have extended my internship in Sabre after the first semester. So I've been working in Sabre as a software developer for almost 1 year now. For the first semester, I was working with the AirVision Cargo Revenue Manager team. Major chunk of my work in this team was based on adding new features to the Cargo Revenue Manager application for Lufthansa. While working on these enhancements, I learnt Struts, which is a standard framework for creating web applications and got a good exposure to JSP, Java and SQL. For the second semester, I got the opportunity to work with the GetThere team in Sabre. We had the task of building a recommendation engine for GetThere from scratch. Big Data Analytics in Hadoop was used for this purpose. Since big data was a new technology for me, every day was a new learning. While working on this project, I not only had a decent exposure to various technologies in the Big Data ecosystem, but also learnt the role that Data Analytics can play in solving real life business problems. Being from a non CS background, I did not know many technologies before joining Sabre. So while working on live projects here, I've got a decent exposure to Java and certain technologies in the Hadoop ecosystem. I have also learnt the agile methodology which is used for software development in most of the companies.	2015-16-sem2
Sabre Holdings, Bangalore	I have almost completed 11 months of internship at Sabre. I	2015-

Company	Experience	Year
		16 sem2

did my both internships two different teams. I started as Java developer and ended up with data analytics. This overall experience at Sabre has been amazing for me. Work culture is great. If you have passion to learn new things and specially if you are a beginner in coding, this is the place to be at. In my first semester, I worked with GetThere Team. Before filling up PS2 preference form, I was pretty confused on what kind of PS to prefer. I took decision to try out IT industry in my first semester and I ended up with getting Sabre. All I knew before joining Sabre was just basic programming in C (Syllabus of course CP). I was lucky enough to directly work with Principal Architect of team for an innovative idea. Objective of the project was to monitor the quality of new code entering the repository. I was given a week or so to learn Java as this project was based on core Java Development. It gave me exposure to many things including how to connect to the database, how to make API requests through Java, how to use collections effectively. The application dealt with two Main APIs, SVN and Sonar. The project consisted of both research and implementation and had multiple versions. When application was completed and tested, I was asked to expose it to a web service using Spring Framework. Next we created a Dashboard using Node.js and several web technologies like in order to display the results with Diagrams. At every stage, I gave demo to Managers, Developers, QA team etc which gave me a lot of confidence. Also I got a chance to develop something from scratch to the phases of testing and deployment. It was truly an awesome opportunity that I got. A new and first team was being formed at Bangalore office for Data Analytics. During the Global Hackathon Competition, I had built a small flight recommendation engine. This is when I was introduced to Big data and was immediately fascinated to the advanced technologies. I started learning things on my own and coincidently happened to be part of this new team. The team mainly focused on initial stages of Data Analytics which is capturing data and organizing it in Hadoop so that it's easier to process the data in future. It was a great exposure to learn Hadoop and its various components. I got to work on Map Reduce too for different use cases. This team strictly followed Agile Methodology for development cycles and I happened to be the first developer in the team. Until QA or BA joined our team, I got an opportunity to play multiple roles in the team. There was also some work in Java to refine the data before pushing it to Hadoop. I got to learn about Hive, Avro, Parquet, Spark and Talend. Initially work was

Company	Experience	Year
	mostly POC type. By the end of the term, we started dealing with PROD data. It was quite enriching experience and I would be continuing as full time employee in the same team. It helped me figure out my passion and shaped my career path. I would like to thank PS division, Preeti Ma'am and My mentors at Sabre for constant guidance and encouragement. Highly grateful!	
Sabre Holdings, Bangalore	I have worked with Sabre Travel technologies as an intern for an year now. I have worked in with the Airline Ticketing QA team, but on asking I was assigned development work. My tasks involved creating a tool for the team which assisted them with their testing tasks. This tool was basically a web app based on the python Django framework. Though I was allotted this work, mostly the other interns in my team did Automation testing only. The technologies used by the company are mostly legacy, but I was allowed to use technologies of my choice as I was not working in any specific team and because my project was an individual one. You will be expected to attend weekly meetings, daily standups, , sprint planning, etc. which will help you attain concise knowledge of enterprise level planning and application lifecycle management paradigms. From the standpoint of technological learning, it depends a lot on which team you are allotted and what project you are working on. In case you don't like your work a lot, it is quite easy to get your teams changed. The work life balance is amazing, with flexible work timings and supportive management.	2015-16-sem2
Samhita Social Ventures , Mumbai		2018-19-sem2
Samhita Social Ventures , Mumbai	Made Web App and Data Analytics Tools Tool used (Development tools - H/w, S/w) : Linux, Node, Sublime Text 3, Firefox Objectives of the project : Create a Web App and Data Analytics Tools Major Learning Outcomes : Learned how to create a Web App and Data Analytics Tools Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Good team, helpful coworkers. No one is technically much proficient beyond everyday computing so I was the only IT guy. Academic courses relevant to the project : None	2018-19-sem2
Samsung R & D Institute , Bangalore		2018-19-sem2

Company	Experience	Year
Samsung R & D Institute , Bangalore	5G Physical Layer, PRACH Design and Evaluation Tool used (Development tools - H/w, S/w) : MATLAB Objectives of the project : Comparison of simulated results and published 3GPP results for evaluation of PRACH design Major Learning Outcomes : In-depth analysis and development of a 5G block to be tested on unreleased 5G devices Details of Papers/patents : Brief Description of working environment, expectations from the company : Comfortable work culture, focussed work Academic courses relevant to the project : Signals and Systems, Communication Systems	2018-19-sem2
Samsung R & D Institute , Bangalore	Worked on developing a software application for IoT (Internet of Things) enabled doors, which allows users to monitor the status of doors at their home or office, lock or unlock them remotely. Both the server portion and UI of the application were designed and integrated into the codebase. Also got some exposure on working with databases, which are used to store important door information. The database, server and the user interface were integrated into one fully functional application. Also tested the entire application for any bugs and issues. Worked on building test cases to test various functionalities being used in the application codebase. Tool used (Development tools - H/w, S/w) : AngularJS, Express.js, JavaScript, Mocha, Node.js. Objectives of the project : To develop a fully functional and tested software application on IoT enabled doors. Major Learning Outcomes : Lots of experience gained on working with JavaScript and AngularJS programming languages, which are primarily used for application development. Gained beneficial exposure on working with databases and building test cases using Mocha. Details of Papers/patents : Brief Description of working environment, expectations from the company : I had an excellent experience working in a company of tremendous repute like Samsung R&D. The work culture was very conducive to efficiency and productivity. My mentor and team-members were very helpful and guided me throughout the duration of the internship. I also got to learn a lot by working on the project allotted which would come in handy in the future. The company also provided for recreational activities such as gym and foosball. Overall, the internship was a very enriching and learning experience. Academic courses relevant to the project : Data Structures and Algorithms(DSA), Object Oriented Programming(OOP)	2018-19-sem2

Company	Experience	Year
Samsung R & D Institute , Bangalore	My work mainly involved proposing an appropriate Reinforcement Learning framework for the given problem and identifying meaningful state and action parameters for the same Tool used (Development tools - H/w, S/w) : Python Objectives of the project : Designing an RL framework for dynamic kernel policy selection to improve app performance Major Learning Outcomes : Studied Reinforcement Learning, Android graphics pipeline, and kernel tunables affecting the scheduler, cpu governor, virtual memory, etc Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment in general is friendly and supportive. The quality of work however, is highly dependant on the team you're assigned to Academic courses relevant to the project : Operating Systems, NNFL (Major focus on RL, but some Neural Network theory was also required)	2018-19-sem2
Samsung R & D Institute , Bangalore	Performance Evaluation of Multilayer Data Protection and Blockchain based trusted authentication in IOPS Tool used (Development tools - H/w, S/w) : Research Work Objectives of the project : Performance Evaluation of Multilayer Data Protection and Blockchain based trusted authentication in IOPS Major Learning Outcomes : Android Battery, working of LTE and WLAN, Blockchain, IOPS Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is good. Academic courses relevant to the project : Communication courses	2018-19-sem2

Company	Experience	Year
Samsung R & D Institute , Bangalore	Developed a web application to ease the process of labelling data for machine learning. The app had features like uploading data, downloading labelled data, customizing labels specific to the data, labelling the data, validating the labelled data, posting comments, user management, admin page etc. The app developed was used by employees to label data and then use it for machine learning models. This app helped speed up the process of training the models. Tool used (Development tools - H/w, S/w) : Node.js, javascript, angular, css, html, mysql Objectives of the project : Ease the process of labelling data, Prepare data for ml models, Validate labelled data Major Learning Outcomes : Learned JavaScript, node.js Details of Papers/patents : Brief Description of working environment, expectations from the company : Colleagues were extremely helpful and the objectives were clearly specified. There was a lot of learning throughout the internship. Academic courses relevant to the project : Database management system	2018-19-sem2
Samsung R & D Institute , Bangalore	Development of a profiler to collect data of the computational resources used during the execution of a machine learning model on an android device. Resources like cpu, gpu, ram, nsu, dsp etc. Then using this collected data to develop a prediction model. Tool used (Development tools - H/w, S/w) : Git, c++, python Objectives of the project : Inference of the best compute unit Major Learning Outcomes : Development of large code-base and how to integrate it with the existing code-base. Details of Papers/patents : Brief Description of working environment, expectations from the company : The work culture is okay. The working employees are really helpful in guiding you and they help you a lot. Academic courses relevant to the project : None	2018-19-sem2

Company	Experience	Year
Samsung R & D Institute , Bangalore	The work was on building a novel algorithm based on deep reinforcement learning for the LTE MAC scheduler. Tool used (Development tools - H/w, S/w) : Python, jupyter notebooks, tensorflow. Objectives of the project : To build a novel algorithm and show that it is better than traditional scheduling algorithms. Major Learning Outcomes : Reinforcement learning, LTE, OOP. Details of Papers/patents : If the results pan out to be as expected, a paper can be expected too. Brief Description of working environment, expectations from the company : Company expected us to build the algorithm and compare it with other traditional algorithm essentially benchmarking and seeing how the new algorithm is doing. Then depending on the results a paper was expected. Working hours were strictly 9 hours per day on average over a month. Academic courses relevant to the project : Machine learning, neural networks and fuzzy logic, communication systems, wireless technologies, operating systems.	2018-19-sem2
Samsung R & D Institute , Bangalore	The project is primarily focused on performing analytics on the log data. Since there are a vast majority of fields that are logged for each utterance and millions of utterances that are recorded day-to-day basis (due to the millions of users worldwide), this proves to be a challenging task. The methodology involves identifying an issue that exists within the system, mining the required text data and its corresponding fields, preprocessing the data in a way that is suitable for analysis and finally performing the root cause analysis to come to the core reason of the issue at hand. This is then followed by appropriate ways of representing the data so as to support our root cause analysis. Tool used (Development tools - H/w, S/w) : Pandas Objectives of the project : Using descriptive analytics to dive down into issues existing with the system and performing a root cause analysis for the same. Major Learning Outcomes : Ability to analyze and work on huge volumes of live data records Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Data Mining	2018-19-sem2
Samsung R &D Institute - Image & Video Processing,	Bangalore	2016-17-sem2

Company	Experience	Year
Samsung R &D Institute - Image & Video Processing,	Developing a Service which enables data exchange between a Constrained Device and a Wearable device using a Proxy Device whose role could be taken up by a Smart Device. Tools used (Development tools - H/w, S/w): Android Studio, Eclipse. Objectives of the project: Developing a Service which enables data exchange between a Constrained Device and a Wearable device using a Proxy Device whose role could be taken up by a Smart Device. Outcomes of the project: Developing a Service which enables data exchange between a Constrained Device and a Wearable device using a Proxy Device whose role could be taken up by a Smart Device. Major Learning Outcomes: JAVA, App Development. Brief Description of working environment, expectations from the company: Helpful team. Major expectations include being disciplined and meeting the deadlines set more or less.	2016-17-sem2
Samsung R &D Institute - Image & Video Processing,	Visual place Recognition using computer vision techniques. This is important in mapping and localisation as they appears of a scene may vary due to differences in lighting conditions, dynamic elements, orientation changes. Tools used (Development tools - H/w, S/w): openCV, android. Objectives of the project: Robust place Recognition. Outcomes of the project: Comparison of algorithms, application. Major Learning Outcomes: Computer vision. Brief Description of working environment, expectations from the company: Korean work culture. Pay discrimination between colleges for employees.	2016-17-sem2

Company	Experience	Year
Samsung R &D Institute - Image & Video Processing,	Worked on Virtual Reality developing for Gear VR and Oculus. Created a Navigation Module to sync different inputs for the developers. Rendered 3D models in OpenGL for desktop application and in EGL for VR. Added advanced features of Collision Detection. Tools used (Development tools - H/w, S/w): S/w -> OpenGL, Visual Studio, Android Studio and Oculus Mobile SDK. Objectives of the project: Navigation Module for Desktop Application. Outcomes of the project: Module exposed as API for developers on Native Development Kit in Oculus Mobile SDK. Major Learning Outcomes: Graphics, VR Development, Algorithms and Optimization. Details of papers/patents: In progress. Brief Description of working environment, expectations from the company: Lots of learning opportunities, nice mentors and managers. Expectation from the company to ideate and come up with new solutions. For PPO, required to clear a Coding test followed by interview. Discrepancy in Pay structures between BITS campuses.	2016-17-sem2
Samsung R &D Institute - Image & Video Processing,	3D reconstruction pipeline was built using open source tools. An application was developed to complement the previous work done in the same field. Tools used (Development tools - H/w, S/w): OpenMVG, OpenMVE and Cmake. Objectives of the project: To create a complete end to end 3D pipeline that can work with structure from motion. Outcomes of the project: To be able to use previous information obtained from different environments to predict future acquisitions. Major Learning Outcomes: Understood computer vision, features extraction, SIFT, feature matching, incremental SfM and many other. Details of papers/patents: OpenMVG library. Brief Description of working environment, expectations from the company: Good for 5 months. Korean work culture. Not very enjoyable for permanent work. Discrimination in pay on basis of campuses.	2016-17-sem2

Company	Experience	Year
Samsung R &D Institute - Image & Video Processing,	To construct a complete a 3-D reconstruction pipeline using open source algorithms. Then write a machine learning model to learn different optimal values for various features to assist automated acquisition (e.g. using UAVs). The major steps followed in the pipeline are as follows: 1) Take images from around an object as input. 2) Generate a sparse point cloud using Structure from Motion technique. 3) Densifying this point cloud. 4) Mesh Reconstruction. 5) Texture Generation. Tools used (Development tools - H/w, S/w): C++, Python, openCV. Objectives of the project: To construct a complete a 3-D reconstruction pipeline using open source algorithms. Then write a machine learning model to learn the optimal values for various features to assist automated acquisition (e.g. using UAVs). Outcomes of the project: Constructed a complete 3-D reconstruction pipeline using open source algorithms. Wrote a machine learning model for learning the optimal values for various features to assist automated acquisition. Major Learning Outcomes: Learned Multiview stereopsis in some detail. Was acquainted with some Computer Vision concepts. Brief Description of working environment, expectations from the company: 45 hours (5 day) work week policy. Projects are interesting, research oriented and (mostly) fun to work on. Student is expected to do justice to the same.	2016-17-sem2
Samsung R &D Institute - Image & Video Processing,	Autocompletion functionality for Tizen C#editor. Tools used (Development tools - H/w, S/w): Eclipse, Tizen studio. Objectives of the project: To implement autocomplete functionality for tizen IDE. Outcomes of the project: Tizen csharp editor is now able to autosuggest by relevance. Major Learning Outcomes: Eclipse plugin development to extend the functionalities of Eclipse. Brief Description of working environment, expectations from the company: It's easy to approach anyone in the team.	2016-17-sem2

Company	Experience	Year
Samsung R &D Institute - Image & Video Processing,	I was assigned to security team in Tizen operating system team.My project was to optimise some security related modules in the first half. This involved going through code for many core OS related service code written and then trying to optimise the performance of the modules. One such module assigned was cynara. In my second half time in the company, I was assigned a project to automate a tool GDB which is used extensively internally. I designed developed and deployed this system in a local server.There are many other minor tasks assigned apart from main projects. Tools used (Development tools - H/w, S/w): GDB, Node Js, Bash and V++. Objectives of the project: Optimise the modules and to automate GDB analysis. Outcomes of the project: Implemented a solution to optimise a module called cynara and proposed better methods to implement further changes. The GDB analysis is successfully automated using a local server. Major Learning Outcomes: Optimising code of big modules which has hundreds of files. Shell scripting and knowledge about packaging software at OS level. Brief Description of working environment, expectations from the company: The work environment is very typical one found at any software company. All the employees are either from top premier institutes or atleast 10 years experienced. There is good scope to learn from them .The company doesn't expect a very high performance.	2016-17-sem2
Samsung R &D Institute - Image & Video Processing,	Developed a tool for debugging wayland known as Wayland debugger which will help to debug applications by providing features. Tools used (Development tools - H/w, S/w): c, gdb. Objectives of the project: development of Wayland debugger for Tizen 3.0. Outcomes of the project: developed wayland debugger. Major Learning Outcomes: gdb, display protocol. Brief Description of working environment, expectations from the company: Good perks and nice people to work with.	2016-17-sem2

Company	Experience	Year
Samsung R &D Institute - Image & Video Processing,	My project deals with 3D Mesh compression of Arbitrary Textured Meshes. Meshes are used for representing Objects in 3D. Given the kind of data requirements in today's generation, it is absolutely essential to have these meshes to be able to processed and transferred more efficiently. My project helps with the support given to the POMAR algorithm by extending it to textured Meshes. Tools used (Development tools - H/w, S/w): Visual Studio, MEPP, PCL, Openmesh, Meshlab and VCGLIB. Objectives of the project: The project deals with 3D Mesh compression of Arbitrary Textured Meshes by making the process more efficient and faster. Outcomes of the project: The project helps with the support given to the POMAR algorithm by extending it to textured Meshes. Major Learning Outcomes: Learnt basics of Computer Graphics, learnt about Meshes and their uses, learnt mesh compression and processing too. Brief Description of working environment, expectations from the company: Samsung R&D Bangalore is a good place for those interested in research oriented work profile. There is always constant support from the peers and your mentors and managers to keep you motivated. Considering how busy Samsung is in the market, it is expected to get a lot of projects and interns are expected to work on those live projects too. With an added advantage of free food and free transport, Samsung is a good place to work in.	2016-17-sem2

Company	Experience	Year
Samsung R &D Institute - Image & Video Processing,	Web application development. Worked on the development of server side of the web application, Adnex.The project involves 1.Building RESTful Web APIs to load DICOM/JPEG images and calculate probabilities of different stages of malignancy (using pre-developed algorithm). 2. Integrating the web application with PACS server.Android app development-Worked on development of an android application which displays the profile of the patients.The app provides easy and on the go access to entire data - personal information of the patients, their scan results, and test reports. Tools used (Development tools - H/w, S/w): Android Studio, Visual Studio. Objectives of the project: To develop of the mentioned applications as a PoC. Outcomes of the project: Accomplished the development of the web application (Adnex) with desired functionalities and also the development of the android app with all the required features. Major Learning Outcomes: Android development. Brief Description of working environment, expectations from the company: I'd rate the work environment at Samsung to be okay - not that great but not that bad either. There is a 45 hours work policy which is strictly followed. So there are times when you are relatively free but you have to stay in office nonetheless because you have to clock -in hours as per the work-time policy. Other than that there are many perks like free food, free transport etc etc.You have to clear the advanced level coding test as one of the eligibilities for a PPO to be extended (so yeah interviews too follow). And the CTC they offer differs on the basis of your college (even disparity among Pilani campus and Hyderabad & Goa campus packages).	2016-17-sem2
Samsung R &D Institute - Image & Video Processing,	Created a framework for interacting with 360 videos in VR. User would be able to bring in extra objects into the environment based on the requirements, so as to better understand something. Tools used (Development tools - H/w, S/w): Android Studio, Gear VR, Galaxy S7 and GVRf. Objectives of the project: Develop a framework for interactive 360 videos. Outcomes of the project: Completed the objective. Major Learning Outcomes: VR and graphics developed. Brief Description of working environment, expectations from the company: Relaxed work environment. PPO not so great for Goa and Hyderabad campuses.	2016-17-sem2

Company	Experience	Year
Samsung R &D Institute - Image & Video Processing,	Android development. Tools used (Development tools - H/w, S/w): Android Studio. Objectives of the project: To develope a personalization client application. Outcomes of the project: personalization client Application. Major Learning Outcomes: Android, java. Brief Description of working environment, expectations from the company: Good working environment. The company is expecting the interns to be good at basics and have a minimum coding knowledge.	2016-17-sem2
Samsung R &D Institute - Image & Video Processing,	Mostly my work was about learning how the Samsung NLU team uses internal tools to do their NLU development. We did not get to do any actual coding in C++ but was mostly restricted to peripheral modules that were already coded. All we did was full up the tools and execute modules throughout the project. Tools used (Development tools - H/w, S/w): Samsung internal tools for developing (ACE). Objectives of the project: NLU Process additions. Basically filling up a Samsung internal tool to configure the NLU. Outcomes of the project: It was not one complete project that had a final outcome. The team was very "result-oriented", so we had weekly subtasks that we finished. Major Learning Outcomes: Learning about Samsung internal procedures for handling NLU processes. Some bugfixing. Not many coding skills that transfer into other jobs. Details of papers/patents: None. This team (Intelligence team, NLU subteam) had no scope for patents or original research. Brief Description of working environment, expectations from the company: Korean work culture and R&D work culture is not for everyone. Work is often done in rather inefficient manner and the company puts restrictions people will find inconvenient (like no laptops/pen drives to "minimum 9 hours of work per day"). In terms of PPO opportunities etc, the package offered differs based on your campus (so only Pilani campus students should apply, pay wise). A lot depends on which teams you are assigned to because interns have little choice in what opportunities they can explore. (My team was very result oriented so there was no scope to pursue research. Another team had only research opportunities but not corporate exposure). The company overall is pretty mediocre in terms of overall quality of people working. Ratio of average employees to people you can learn from is lower than expected.	2016-17-sem2

Company	Experience	Year
Samsung R &D Institute - Image & Video Processing,	Washer agent is an NLU agent being developed for "Washing Machine". This agent will contain NLU agent implementation and following are the expected tasks: Understanding the VUI document used for requirements capturing. - Develop new NLU commands in Washer domain based on the requirements. - Get complete understanding of command development, tag handler development, and response generation and their implementation. - Get complete understanding of various data retrieval technique and their implementations. Tools used (Development tools - H/w, S/w): Voicebox Software. Objectives of the project: NLU Side implementation. Outcomes of the project: NLU Side implementation. Major Learning Outcomes: OO Visualization, XML, Json, Python, C++. Brief Description of working environment, expectations from the company: Work Environment was good. Work given was also good, excellent interaction with the manager and other employees. The only issue is with the policy of the company to retain the interns even though they have worked hard and have contributed to the company.	2016-17-sem2

Company	Experience	Year
Samsung R &D Institute - Image & Video Processing,	TCP/IP stack optimizations for IoT devices/ RS/RA module design for IPv6. Tools used (Development tools - H/w, S/w): Microsoft Visual Studio, Wireshark packet Capture, Source Insight code editor, Beyond Compare. Objectives of the project: Objective of first part of the project was to suggest optimizations we could make to the existing TCP/IP stack to improve its performance. Objective of the second part of the project was to design a Router advertisement, Router Solicitation module for multicast testing by the company. Outcomes of the project: Objectives of the projects were achieved. Suggestions were made for possible implementations of optimization modifications but testing was postponed for a later stage. Design of RS/RA module was completed successfully. Major Learning Outcomes: Deep understanding of network protocols and how different layers in the network stack function. Also increased coding proficiency in C. Brief Description of working environment, expectations from the company: Working environment was very cordial. People working at the organisation are extremely technically competent and there was a lot to learn from them. They allow you to work at your own pace and don't burden you with unrealistic deadlines. Even if you do happen to miss a deadline or two they don't make a fuss. Overall a pretty good work environment which encourages learning more than tangible deliverables.	2016-17-sem2
Samsung R &D Institute - Image & Video Processing,	Development of APIs on Android Platform on Android Studio. Tools used (Development tools - H/w, S/w): Samsung IRIS tab, Android Studio, Eclipse. Objectives of the project: Implementation of registered device APIs onto existing sample UIDAI app. Outcomes of the project: Release of Indian Identity Authentication App. Major Learning Outcomes: Working on Android Studio and Code testing. Details of papers/patents: Aadhaar Card authentication API. Brief Description of working environment, expectations from the company: Work Environment is great with not much stress on interns at least. They expect us to be good at coding and they care of the rest in helping us learn.	2016-17-sem2

Company	Experience	Year
Samsung R &D Institute - Image & Video Processing,	Set up a web application for efficient triaging of log files and database. Tools used (Development tools - H/w, S/w): Django REST framework and Angular2. Objectives of the project: To support efficient triaging of log files generated by their product. Outcomes of the project: A web-based tool which downloads, unzips if needed, and parses log files based on user query. Major Learning Outcomes: Django REST framework Angular2 HTTP services deployment of application on server. Brief Description of working environment, expectations from the company: Working environment was very supportive. Mentors and managers were easily approachable and helped whenever needed. They encouraged learning and gave as much time as required to acquire the skills required.	2016-17-sem2
Samsung R&D Institute , Noida		2018-19-sem2
Samsung R&D Institute , Noida	Worked on Graph based databases for benchmarking and analysis of their qualitative performance. Did comparision between knowledge graphs and NoSQL databases to distinguish pros and cons of each. Tool used (Development tools - H/w, S/w) : DGraph Objectives of the project : Qualitative benchmarking and analysis of Graph Databases Major Learning Outcomes : Graph database are capable of holding a great amount of relational information and are able to query it much faster than traditional relational DBs Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Database Management Systems	2018-19-sem2
Samsung R&D Institute , Noida	Awa based creation of identity and access management services using microsoft AD 2016, lambda, rds, docker. Tool used (Development tools - H/w, S/w) : Aws Objectives of the project : Confidential Major Learning Outcomes : Cloud architecture and monitoring of servers Details of Papers/patents : No Brief Description of working environment, expectations from the company : Academic courses relevant to the project : N/A	2018-19-sem2
Samsung Semiconductor India R&D Center , Bangalore		2018-19-sem2

Company	Experience	Year
Samsung Semiconductor India R&D Center , Bangalore	As a part of PS-@ in SSIR, I was assigned the role of automating log queries in modem team. The process included web-scraping , finding the relevant information using keywords and subsequent classification using a decision tree. I was also given the task of designing and implementing a monitor task to check the server health. Tool used (Development tools - H/w, S/w) : Samsung proprietary tools Objectives of the project : Automation of log queries Major Learning Outcomes : Got a peek into the world of software engineering and also developed an end to end application Details of Papers/patents : N.A Brief Description of working environment, expectations from the company : The working culture was amazing, with all talented,enthusiastic and passionate people around me. The deadlines were very sharp and there was something new to learn or pick up on on a daily basis. This kept us occupied and never felt bored. There were also fun events organised by the company once in a month. The company expects us to pick up new tools and concepts soon , by doing our study. Also expects us to be good at coding. We are supposed to qualify a coding round to be considered for full time opportunity. Academic courses relevant to the project : c++,data structures,system design, python	2018-19-sem2

Company	Experience	Year
Samsung Semiconductor India R&D Center , Bangalore	Learned scripting languages-PERL and TCL and used them for analysis. Identifying modules with timing violations and then rectify those violations by altering the placement of the modules. Worked on NDR(Non default routing).Modified the net widths and spacing and did a comparison of slack(whether increasing or decreasing) before and after NDR. Imposing constraints and then improve the quality of report(QOR). Tool used (Development tools - H/w, S/w) : IC Compiler 2 for physical design,MS excel for data analysis Objectives of the project : Module to module timing analysis at different placement stages,analyzing tool behaviour ,analyzing different methods to mitigate congestion and improve the Quality of Report(QOR) Major Learning Outcomes : In depth knowledge of physical design flow, static timing analysis and the different steps associated with it.Also got to learn TCL scripting and use it along with IC compiler tool in analysis of certain stage of a block. Identifying critical paths between different modules and use techniques to remove the timing violations between those modules. Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment was good,no fixed working hours.Manager and mentors are there to cater to any issues you might face which helped a lot. Academic courses relevant to the project : CAD for IC Design,VLSI design,Basic digital electronics	2018-19-sem2
Samsung Semiconductor India R&D Center , Bangalore	Work was to develop a Cross Platform Desktop Application for verification of Solid State Drive. The application was build on Electron and Node.js was used for back-end connectivity Tool used (Development tools - H/w, S/w) : Electron , Visual Studio Objectives of the project : To develop an OS-independent application with a native Graphical User Interface to verify the functionality of Samsung memory devices. Major Learning Outcomes : Cross Platform Desktop Application Development Details of Papers/patents : Brief Description of working environment, expectations from the company : The work environment is good and flexible. The mentors and manager are really supportive , cooperative and always welcome your opinion in discussions. Overall its good learning experience Academic courses relevant to the project : Web Development	2018-19-sem2
Samsung Semiconductor India R&D Center-Hardware ,	Bangalore	2019-20-sem2

Company	Experience	Year
Samsung Semiconductor India R&D Center-Hardware ,	I was in Analog Chip Designing Team. The first project was about the simulation and analysis of Error Amplifier used in Buck Convertor. All its parameters and specifications were determined, like Stability Margins, PSRR, Open Loop Gain by doing DC , AC, and Transient analysis.The second project was about the Analysis of the Power Stage of the Buck Convertor, where I found the dead time, efficiency of the power stage for a given duty cycle and the losses that occur in the power stage. Tool used (Development tools - H/w, S/w) : Cadence-Virtuoso, Simulation and Analysis Environment, Custom Wave Viewer, Linux Objectives of the project : To understand as to what all things are kept in mind by a designer while designing any circuitry which is chosen to accomplish any particular functionality Major Learning Outcomes : Came to know as to why that design for Error Amplifier and Power Stage was chosen. My analysis gave an insight to Samsung as to what all things need to be kept in mind while Designing Power Stage and Error Amplifier for Buck Convertor. Details of Papers/patents : Brief Description of working environment, expectations from the company : The work culture was quite good. A mentor was assigned for me who would guide me in doing simulations required for doing the project and also for making testbenches required for the simulation. PPO will depend on your performance, how independently you can work, how well are you able to meet deadlines, all these things do matter. In Analog Teams, they generally look for experienced and learned people, so you would need to be thorough with your technical knowledge in Analog Domain and show them that you are quite interested in working in this domain, if at all you get to work in an Analog Team. Academic courses relevant to the project : Power Electronics, Microelectronic Circuits, Analog Electronics, Analog-Digital VLSI Design	2019-20-sem2

Company	Experience	Year
Samsung Semiconductor India R&D Center-Hardware ,	I was a part of Flash Memory IP Verification team and I worked on the formal verification of debug structures, to verify whether the debug information from the internal logic is available at the output of registers based on programmable selections. The intent was to automate this process and lower the dependency and unnecessary troubles of using simulation based methods. Tool used (Development tools - H/w, S/w) : UVM, SimVision, JasperGold Objectives of the project : Automate the verification of debug structures by using Formal verification tool Major Learning Outcomes : Got to know about Formal Verification and its benefits over traditional simulation based verification techniques. Details of Papers/patents : Brief Description of working environment, expectations from the company : The work environment is good. They treat you as an employee from the first day itself (don't worry, not in terms of expectations but in terms of accesses provided)! You will be provided enough time to get accustomed to the tools and to learn what you need to learn. Be professional, work hard to prove your worth to the corporation and rest assured that you will reap what you sow! One thing I would like to point out is that SSIR generally announce PPO results for BITSians around May. So if you are interning here from July-December, you will get your PPO result only at the end of next semester (even if you are a single degree student)! Academic courses relevant to the project : Digital Design, ADVD	2019-20-sem2
Samsung Semiconductor India R&D Center-Hardware ,	Inferencing and acceleration of pre-trained neural network models on Android devices can be done using Neural Network API. NNAPI provides a base layer of functionality for higher-level machine learning frameworks such as Tensorflow Lite. The tflite model for image classification is inferenced on CPU, GPU and other hardware accelerators. Also I did some scripting work. Tool used (Development tools - H/w, S/w) : Android device, Command shell, C++, Python, Bash Objectives of the project : Inferencing of neural network models on Android device Major Learning Outcomes : Inferencing of neural network models on Android device Details of Papers/patents : Brief Description of working environment, expectations from the company : The team members are willing to help and it's a good environment to learn and explore new things. Academic courses relevant to the project : NA	2019-20-sem2

Company	Experience	Year
Samsung Semiconductor India R&D Center-Hardware ,	I have been working in the IP development of Samsung Semiconductors. Initially, I worked on some samsung tools and then I have worked with Analog IC design team. I have worked on development of 6-bit R-2R ladder DAC to study if its performance is better than the one they are currently using i.e R ladder DAC. Also, some statistical analysis is done to check stability and required precision for the DAC. After that, I have been given small tasks like apl and lib generation. Tool used (Development tools - H/w, S/w) : Cadence development tool, Crossfire, Silicon Smart, Redhawk-Apache, Linux. Objectives of the project : To study the R-2R ladder DAC and its performance in comparison with R ladder DAC. Extension of 6-bit DAC to 8-bit and further to check for its precision and stability with statistical analysis. Major Learning Outcomes : IC design, IP development, workflow in the semiconductor industry, steps followed in developing a design. Details of Papers/patents : None. Brief Description of working environment, expectations from the company : There is good working environment and technical culture. There are always some sessions and activities going on which help us to learn new things and explore. There are also some special HR sessions for support. All the employees are friendly and are willing to help in case we have any doubts or queries. I really enjoyed working with these people here at samsung semiconductors and learned a lot of new things and practical application of things I learned. Hence, people who want to build career in the semiconductor industries, this should be their number 1 choice for their practice school station. Academic courses relevant to the project : Analog Electronics, Analog and Digital VLSI Design.	2019-20-sem2

Company	Experience	Year
Samsung Semiconductor India R&D Center-Hardware ,	I was a part of the storage controller team within Memory division. This team works on implementing and testing different storage protocols which shall, I guess, later be used in Solid state drives (SSDs) produced by Samsung if the results of testing are satisfactory and meets the market requirements. I was a part of a live project from day 1 and involved with generating header files to be used for firmware, testing the protocol on FPGA boards and learning various tools on the go. Tool used (Development tools - H/w, S/w) : Xilinx Vivado, Vivado Lab, SDK, Magillem, Visual Studio Objectives of the project : To test a new link layer protocol, with NVMe as the standard application layer protocol and check it's feasibility for commercial use in the years to come Major Learning Outcomes : Learnt various HW and embedded SW related tools. Details of Papers/patents : - Brief Description of working environment, expectations from the company : The company is very good. Work load depends on the team. If the team feels you are working efficiently, you'll be given further tasks and that should be a good indication for you to understand what the team thinks of your performance. Academic courses relevant to the project : Microprocessors and interfacing, Computer Architecture, Digital Design, Mobile Telecommunication Networks.	2019-20-sem2
Sattva Media & Consulting Pvt Ltd , Bangalore		2018-19-sem2
Sattva Media & Consulting Pvt Ltd , Bangalore	Impact evaluation studies for evaluation of csr activities undertaken, creation of databases Tool used (Development tools - H/w, S/w) : Excel, word, collect cf Objectives of the project : social impact evaluation study Major Learning Outcomes : database creation, primary and secondary research Details of Papers/patents : Brief Description of working environment, expectations from the company : people are friendly and cooperative, amazing work environment Academic courses relevant to the project : International relations	2018-19-sem2
Sattva Media & Consulting Pvt Ltd , Bangalore		2019-20-sem2

Company	Experience	Year
Sattva Media & Consulting Pvt Ltd , Bangalore	I was part of a project with one of the leading philanthropic foundations in the country. My work involved analyzing the market's current landscape, conducting secondary and primary research and creating appropriate analysis frameworks for the collected data. In addition to that, I was also part of the deliverable preparation team, wherein I was entrusted with writing major sections of the final report, and providing support to my team members, wherever necessary. Tool used (Development tools - H/w, S/w) : Microsoft Office Social Cops Zapier Pipedrive Objectives of the project : To create a toolkit that would inform the ecosystem players about a specific phenomenon in the giving market Major Learning Outcomes : I got to work extensively on my problem-solving skills, and have definitely come out with a more analytical frame of mind than before. I feel that it was a great experience in terms of exposure in a field that I want to pursue in my future. Details of Papers/patents : As part of the project, we prepared a DIY toolkit and a larger report to analyze a particular funding technique for SPOs to leverage, in order to raise more funds. Brief Description of working environment, expectations from the company : The work environment at Sattva is definitely very employee-friendly. Although the offices have shared work spaces, this induces discussions and interactions between everyone, hence improving one's interest in the work. Moreover, because of the conduction of regular update meetings and catch-up sessions, one feels connected with the company and the work that they do, and hence drives further to bring impact. Academic courses relevant to the project : If the empathetic part is to be concerned, it would definitely help for one to go through more Humanities courses, for they provide you a social angle to problems. In addition to that, it would definitely help if the university would bring in more proble	2019-20-sem2
Searce , Bangalore		2018-19-sem2

Company	Experience	Year
Searce , Bangalore	Learner about Apache Beam and Google Cloud Dataflow. Cloud dataflow is used to process large datasets in parallel. Implemented multiple Pipelines for the clients of the company. Tool used (Development tools - H/w, S/w) : Google Cloud Dataflow, Google Cloud Datastore, Google Cloud Functions, Google Cloud Storage, Bigquery, Bigtable, Apache Beam Java and Python SDK, Google Cloud PubSub Objectives of the project : I had three projects. Objective of the first one was to migrate all the datasets from the onpremise servers of the client to Google Cloud Storage. Second project was to analyse and aggregate real time data. Third was to migrate data stored in Google Cloud Storage to Bigtable. Major Learning Outcomes : Learner many things about Google Cloud Platform. Learner to communicate with clients. Learner to architect the cloud-based solutions according to requirements. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : None	2018-19-sem2
Servicenow Software Development India , Hyderabad		2018-19-sem2
Servicenow Software Development India , Hyderabad	Team - ToolsEng-idc . Work focused mainly on Test Automation , testing my teams new app on the ServiceNow platform. Most of this was done by using a testing framework built on top of Selenium by my team. Later moved on to test optimisation. Tool used (Development tools - H/w, S/w) : Java , Eclipse , Git , ServiceNow platform (They give a basic training for ServiceNow platform) Objectives of the project : writing , verifying , optimising tests written for various products and services. Major Learning Outcomes : Code-flow , Software Development Lifecycle , Proficiency in writing tests Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is quite chill , while it varies from team to team. I am able to take sick days whenever required with no pressure from my manager. Academic courses relevant to the project : OOP , Software Development , OOAD .	2018-19-sem2

Company	Experience	Year
Servicenow Software Development India , Hyderabad	Mostly test automation (web apps and iOS , Android both) with a few other short projects like writing APIs for writing to Excel spreadsheets to be used by the other engineers working here. Working on Test Management framework (the newest product in the team). Manual validation and verification of features implemented by the engineers here. Working on incidents (features requested by the teams using our product) Tool used (Development tools - H/w, S/w) : Java , vanilla Javascript , Selenium , Appium(for testing iOS and Android) , ServiceNow platform Objectives of the project : Creating faster/more compatible tests , Supporting the teams using our products Major Learning Outcomes : proficiency in Java , Javascript and ServiceNow Platform as well as general good practices in test automation. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is pretty good with nice office and helpful peers and colleagues . Expect to fully use internal products only as the general motto here is to develop something rather than use 3rd party products. Academic courses relevant to the project : OOP , Object Oriented Analysis and Design , Database	2018-19-sem2
Servicenow Software Development India , Hyderabad		2019-20-sem2
Servicenow Software Development India , Hyderabad	The project aimed to develop a tool to do sentiment analysis of Slack Channels, Facebook posts and Portal Feedback. The whole aim was to develop a data-driven feedback mechanism so that it helps in making better decisions. I used Keras and Tensorflow to develop a neural network that could predict the sentiment of any sentence. The model was also interfaced with ServiceNow's platform. Tool used (Development tools - H/w, S/w) : Python, Powershell, JavaScript Objectives of the project : To do sentiment analysis of the Slack channels, Workplace comments, portal feedback and all other relevant sources. Major Learning Outcomes : Learned about creating ML models, powershell scripting. Details of Papers/patents : Brief Description of working environment, expectations from the company : Work Environment is good as expected. If project is related to the team's work, people will give sufficient attention on your work. Office culture is peaceful. Academic courses relevant to the project : Basic ML knowledge is required, along with a decent skill level in Data Structures.	2019-20-sem2

Company	Experience	Year
Servicenow Software Development India , Hyderabad	I worked on two projects in my PS2. The first one revolves around making an app that autofills the on-boarding forms, through pictures of ID cards. OpenCV in python and java for image processing, microsoft azure's REST call for OCR, and the widget in the front end were used. For the classification of different types of ID cards through OCR, cosine similarity and template matching were used. An in-house OCR server using Flask, running Tesseract, was also built in CentOS. The java class was exposed to the Rhino. Few images were also trained, as template detection. The other project involves image processing too. The aim was to recognise the structure and fields, and the key and the value pair, of a form. The form may be hand-drawn, or printed, empty or filled with all kinds of information. The contours are found using opencv, and processed using different algorithms and novel transformations. Using a new technique that I developed, the application can intelligently recognise the contours, and map it accordingly to the texts, even for hand-drawn dummy forms. Django in CentOS along with Django Rest framework were used as backend, and widget with JS and AngularJS was used in the front end. There are few elements of NLP too, while parsing the texts. Tool used (Development tools - H/w, S/w) : Microsoft Azure apis, Flask, Django, Jupyter, Tesseract, CentOS in VM, OpenCV, Matlab Objectives of the project : The main objective was to develop a product that might help with the user experience and the workflow; using OCR, what all different things that can be done. Major Learning Outcomes : Analysis of data, proper pipeline creation, presenting and pitching while giving demos, integration of different technologies together, developing a product with the client side usage in mind Details of Papers/patents : An existing image processing algorithm on transformations was modified accordingly to recognize intricate shapes Brief Description of working environment, expectations from the company : The working culture is good, help is always available, and all the facilities needed for a good work life balance is given, including many perks. Because of this, the expectation is reasonably high, as the work involves product development, and it also demands good presenting and pitching skills. Frequent standups and demos would be asked, for proper selling of the product. Academic courses relevant to the project : OOPs, OS, Image Processing, DBMS, ML, Data Mining, Communication and Networks	2019-20-sem2

Company	Experience	Year
Servicenow Software Development India , Hyderabad	I had been taken into a team named Service Portals which comes under emerging interfaces(A platform of Service Now) where I was helped the team solving the bug fixes and involved in the writing automation test cases Tool used (Development tools - H/w, S/w) : Eclipse IDE , Visual studio code , Service Now Platform Objectives of the project : To resolve the bugs that causes the product defects Major Learning Outcomes : Javascript , Selenium , HTML , CSS , Angular JS Details of Papers/patents : Brief Description of working environment, expectations from the company : The coworkers were so friendly and interactive , helped and guided me throughout the past 6 months a lot. It was my immense pleasure to work with this peers Academic courses relevant to the project : Data Structures and Algorithms , Object oriented programming	2019-20-sem2
Siemens PLM Software , Pune		2019-20-sem2
Siemens PLM Software , Pune	When a user of the Solid Edge platform saves its 2D/3D design from Solid Edge file format to a neutral file format the user wants all the information of its design to remain unchanged. I made necessary changes in the existing code base to test the working of the translation process .I added test cases and ATP (Automatic testing platform) for the added test cases on a host application to verify the translation process and I also implemented ATP framework for data migration from Solid Works to Solid Edge and added test cases to test the migration process. Tool used (Development tools - H/w, S/w) : Solid Edge, Solid Work Objectives of the project : Reduction in manual testing time,Regression catch Major Learning Outcomes : C++, Soft skills- Teamwork, work ethic, responsibility, time management Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment is very conducive and people in the company are helpful and easily approachable. Facilities such as gym, food and transportation provided by the company are good. The weather of Pune remains pleasant most of the time. Academic courses relevant to the project : Object Oriented Programming	2019-20-sem2

Company	Experience	Year
Siemens PLM Software , Pune	My first project was Adding / Improving (the efficiency of) features to Active Workspace based on user requirement. Active Workspace is one of the major products of Siemens. It is an intuitive user interface that connects to Teamcenter and lets you view and create data in your enterprise's product lifecycle management (PLM) system. First feature was to restore a product session in Active Workspace based on user input such that when the product is opened for the first time it opens in Default Configuration and next time is automatically restored. Defaullt Configuration is the one already defined by the framework. Second feature was to pin elements / products in Active Workspace such that element along with its parent object is pinned to the home-screen. On opening the pinned configuration, it should be restored back to the point where it was pinned which included the base element with its entire configuration. Second project was using various Profiling Tools in Visual Studio in order to track the CPU and Memory Usage of various blocks in Active Workspace server side code in order to optimize the same . Tool used (Development tools - H/w, S/w) : Programming Languages Required : Angular JS , C++ Tools : Microsoft Visual Studio , Visual Studio Code . Objectives of the project : Implementing new features in the web-client (Active Workspace) and Profiling , Optimizing the server code for Active Workspace. Major Learning Outcomes : Usage of Delegates in json. Deep understanding of Service Oriented Architecture . Client-Server framework . Frontend and Backend development . Details of Papers/patents : Brief Description of working environment, expectations from the company : Great working environment ! The team along with the employees are extremely supportive and ready to help at any point of time although they do expect you to take initiative on your own . Excellent place to work in terms of work life balance and have lenient time restrictions . If you are really enthusiastic about taking up a certain project you can negotiate with the HR people and they pretty much allot the kind of work you would prefer . The company has scope for both datascience (Machine Learning etc) as well as Software Development . Academic courses relevant to the project : OOPs (in c++ preferred) , JavaScript / AngularJS , Data Structures & Algorithms	2019-20-sem2
Siemens technology and Services Pvt ltd , Bangalore	Comments: Expectations from industry : Students should be equipped with skills on Artificial Intelligence, Deep Learning, Machine Learning and Data Analytics	2018-19-sem2

Company	Experience	Year
Siemens technology and Services Pvt ltd , Bangalore	Noise arising from Aeroplanes and Fighter planes exhaust, Gas fire extinguishers in data centres has been a rising concern in the world today. These high level noises cause severe impact on the civilians like hearing loss, disturbed sleep, reduced immune response and heart diseases. This issue needs to be addressed which require an ample amount of research. So far scientists have explored a fraction of acoustic phenomena in jets due to its high complexity. In order to reduce the noise, first the noise sources and mechanism of their generation in the flow must be identified. With this objective this project has been taken up and the simulations were conducted in Siemens, Bangalore (R&D division). Simulated screech noise arising from a supersonic jet flow involving shock waves through an orifice using STAR CCM+ software.Validated the simulation results of sound pressure levels to due to screech noise upto a reasonable accuracy with an experiment conducted in NASA Langley Research Center, Virginia. The acoustic simulations which were conducted in Siemens was one of a kind, till now this domain has not been explored by the company. Aeroacoustics which is a science dealing with noise arising from a flow has been properly studied and sound sources arising from a supersonic jet through orifice were identified with reasonable accuracy. Tool used (Development tools - H/w, S/w) : STAR CCM+ Objectives of the project : Acoustic simulations on supersonic flow through orifice Major Learning Outcomes : Explored sound simulations on a new software STAR CCM+; Identified types of noise sources due to a supersonic flow; Developed a methodology for simulating flow involving shock waves and sound arising from it. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Working environment was quite good at Siemens. All sorts of facilities were provided for the interns to complete their projects. Academic courses relevant to the project : Computational Fluid Dynamics	2018-19-sem2
Skoda Auto India Pvt. Ltd. , Aurangabad	Student	2018-19-sem2

Company	Experience	Year
Skoda Auto India Pvt. Ltd. , Aurangabad	New projects implementation which includes technology planning and implementation, trials and modification & project management Tool used (Development tools - H/w, S/w) : MS Office, SAP Objectives of the project : To generate concept and test feasibility for installation of new technology (manipulators, fixtures, etc) required for production of a car. Major Learning Outcomes : Studied various assembly processes, technology used for the processes, planning and implementation of new projects. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Operations planning, Lean manufacturing, Quality	2018-19-sem2
Skoda Auto India Pvt. Ltd. , Aurangabad	Tool used (Development tools - H/w, S/w) : Excel, MS office, SAP Objectives of the project : New projects implementation for Audi A6 NG Major Learning Outcomes : Technology planning and implementation Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Lean manufacturing, production planning	2018-19-sem2
Skoda Auto India Pvt. Ltd. , Mumbai		2018-19-sem2
Skoda Auto India Pvt. Ltd. , Mumbai	Did the work that full time paid workers are supposed to do. Tool used (Development tools - H/w, S/w) : Software - Excel, VBA Objectives of the project : Analyse the daily sales operations of the company. Major Learning Outcomes : How to prioritize objectives in life. Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : No expectations, colleagues were nice, free coffee and a snacks budget, no free lunch though... Academic courses relevant to the project : N/A	2018-19-sem2
Skoda Auto India Pvt. Ltd. , Mumbai	Brief write-up on PS-II station : All three station had different work environments, manufacturing and production, aurangabad- skoda chakan- localisation and indigenous products development, Mumbai- sales services and marketing, lots of excel sheet analysis part	2019-20-sem2
Skoda Auto India Pvt. Ltd. , Mumbai	Created VBA macros for preparing and sending the Parts, Accy., and Oil Business, Pending Cars, Budget and IACS Scores report automatically to the department as well as the respective dealers. Helped in monitoring and improving scores for IACS by working with the dealers to identify unsatisfied customers. Prepared a detailed standard manual	2019-20-sem2

Company	Experience	Year
	to maintain uniform Q-check for all dealers. Monitored weekly Q-check progress and worked with the West Zone ASMs to improve the degree of fulfillment. Prepared several reports like Accy. Kit Dispatch, MOS, Car Down, Tyre Sales, Escalation matrix and iService usage report. Prepared an Excel Dashboard to monitor target vs offtake (business), Q-check, IACS dealers ranking and Aftersales Throughput both dealer wise and zone wise. Tool used (Development tools - H/w, S/w) : Microsoft Excel, Powerpoint, Internal Databases like DMS, SAP and MQCP. Objectives of the project : To help improve Quality as well as Degree of Fulfillment of Qchecks carried out in workshops. To work closely with Customer Support teams of Workshops by helping them revise QFB scores of IACS customers.To code Macro scripts for automating Weekly After S Major Learning Outcomes : Increase the efficiency of Dealer workforce on matters like Qcheck and Customer interactions. Introduce Macro scripts to help prevent the wastage of valuable time in carrying out repetitive tasks. Details of Papers/patents : None Brief Description of working environment, expectations from the company : Working environment was very relaxed and friendly. In my department, i.e. After Sales, there was routine work daily like preparing weekly reports or keeping track of different initiatives like IACS, QCheck, Excallation matrix, etc. During the internship, major part of our work was based on Microsoft Excel. I got to learn many new functions and features within Excel like Pivot Table, Graphs, Dashboards, etc. I also learned a new computer language called VBA which was used in Excel to prepare scripts called Macros to run automated tasks like preparing reports and sending automated specialized mails. I learned new things in terms of life skills like creativity, decision making, problem solving, critical thinking and professional ethics. The internship also helped me in improving my soft skills like oral, written, non-verbal skills during the execution of the various projects as I interacted with the dealers and management directly. The open learning environment that existed between the team members and within the organization was very encouraging which allowed me to communicate freely and understand how corporations work. The internship also helped me learn time management. The fixed schedule of work from 9 to 6 pm allow me to set a proper time table for the day by maintaining a balance between your work and personal life, without harming any of them. Academic courses relevant to the project : Principal of Economics, PPC	

Company	Experience	Year
Society for Health Information Systems Programme , Noida		2018-19-sem2
Society for Health Information Systems Programme , Noida	Work was done on AMR surveillance data in collaboration with ICMR. We used DHIS2 software to analyze the data provided to us. Tool used (Development tools - H/w, S/w) : Microsoft Excel, DHIS2 software Objectives of the project : To analyze anti-microbial resistance data patterns Major Learning Outcomes : Data analytics, MS Excel Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Microbiology	2018-19-sem2
Sokrati Technologies Pvt. Ltd, Pune	As my first full fledged professional experience, the work I was able to perform in Sokrati by being in a double PSII program has greatly helped me in growing in all directions, not just professional, but social and dynamic. I started off by researching into Mobile Deeplinking, a new phenomenon which was yet to properly take off, and documented the possible prospects of imbibing it into the Ads field. Even though my project didn't last long, it taught me a lot about how to approach other start ups, look into technical specifications of new emerging technologies and strike up a practical approach to a new possibility. My work had shortly moved to working on Google Adwords and optimizing both Search and Shopping campaigns. This involved weeks of learning about how ads work, various components such as Campaign, Adset, ad settings and how we could tweak them to try and obtain better results. It took a bit of time but I can now proudly claim to be able to launch all kinds of campaigns in Google Adwords. The same course of action (learning, practicing and experimentation) was followed up in Facebook as well. Performing A/B tests among others (such as time based, alpha tests, etc) really helped me gain a practical sight into how optimization for any processes can be done. Given how important Google Adwords, Facebook Business, and as an extension, Google Analytics are for any Ecommerce or scalable business company in the market, I am glad to say I've had a fair share of learning in all three tools and their usages. Not just the work, being a cog in a team, absorbing Sokrati's amazing culture and learning how to act in both stressful and calm situations has taught me a lot about how to deal with real life circumstances. I am glad to have been given this opportunity through my PSII program.	2015-16-sem2

Company	Experience	Year
Sokrati Technologies Pvt. Ltd, Pune	My experience at Sokrati was quite a pleasant one. The working environment and the employee – intern relationship were commendable and are definitely things to be mentioned explicitly. My time there completely transformed my theory backed mind in to a more practical one. I have got a great knowledge of digital marketing world and criticalities involved in it and major players in this market. I got a greater insight of how advertising is done across the channels. I had to always take the worst case scenario and make the campaigns for advertising. My work is with the Channel Intelligence department. My work is mainly based on Coding and analyzing the campaigns and launching campaigns for advertising on Google and Facebook. I had a chance to learn coding and also work on Google Ad words Editor and Facebook Business Manager. I must say that these 6 months really helped me look beyond the academics, made me more result oriented and taught me how to get things done in a short period of time. The PS experience will definitely augment my future career prospects because now I know the skill set required by those companies and I will be able to develop them. Getting to learn about the company culture and etiquette is yet another bright side of my time there.	2015-16-sem2

Company	Experience	Year
Sokrati Technologies Pvt. Ltd, Pune	PS2 has been a great learning experience for me. It was a stark shift in terms of the quality of work required from academics to professional work. Sokrati being a startup the work culture is very informal and the people around are very helpful. Also, they also give you plenty of opportunities for you to switch team if you feel like you want to learn something new. The work might get hectic but the learning opportunities are also immense. Also, the mentors are there to help you out every step of the way. I was initially a part of the sales team, researching and prospecting for new client, generating leads. Then I was shifted to the marketing team. It was a newly formed team and hence was able to learn alot right from the basics, especially directly under the CEO. Initial tasks mostly comprised of implementation of tasks and researching, reading and watching webinars. Then I was given bigger responsibilities. My mentors were there to guide me throughout the process. I was handling all the social media activities, the research work for SEO activities and finally the execution part for SEO and coordinating with all the teams involved. Then I was trained in Google Adwords and Facebook Business Manager to manage all the paid marketing campaigns for Sokrati. It was a great exposure. The most important skills required were communication skill, writing skills and analytics skills for running the paid campaigns. I was able to increase the number of followers on social media significantly (almost 3 to 4 times). I was able to learn the two most popular types of paid digital marketing currently in the industry. The experience of PS2 as a whole was great in terms of the learning experience, the learning opportunities and the exposure it provided into marketing.	2015-16-sem2

Company	Experience	Year
Sokrati Technologies Pvt. Ltd, Pune	PS2 has helped me become a better person professionally and personally. I have loved both the work and culture here at Sokrati. I got an opportunity to work with some very talented peers and mentors and have learnt and grown a lot during my five months. It was a sharp shift in terms of the quality of work required from academics to professional work. Work is exciting, everyone is diligent, and everyone puts in a lot of effort. Sokratians are the kind of people wouldn't leave you behind and put all energies in pulling you out of dumps, encourage you to do your best, guide you along the way. I was a part of the business development team of in LCS – Large Client Services vertical of the company. My responsibilities included researching organizations and individuals online to find new leads. Research about the decision makers in the company and reach out to them via email to initiate a conversation and build rapport with them. After the conversations begin I would then hand over the lead to senior members of my team and they would take the discussion forward. I was also involved in developing marketing strategies and campaigns. I managed outbound leads and current leads in 'Pipedrive' – a CRM and pipeline management software. In the second half of my term I started working with the business analyst team as well. I understood the fundamentals of search engine marketing and learned a new tool 'Google AdWords'. I underwent a 7days training program on Google AdWords where I learned about bid optimization, how to add keywords, and negatives, create ad copies, and how to launch campaigns. Then I used to add keywords and negatives by analyzing the search term reports of past 30/60 days. I created advert copies of many campaigns for various clients. I used to analyze the keywords report to optimize bids for the keywords. I got to learn a lot of new skills here. The business development work helped me improve my written and spoken communication skills. This role has given me opportunity to gain a good insight into trends in digital spend of companies, effectiveness of digital marketing and analytics which is core for digital marketing. Business analytics helped me improve my analytical skills and I was able to learn new tools which are quintessential in the digital marketing industry. This was a very good learning experience for me and has helped me transform into a professional.	2015-16-sem2

Company	Experience	Year
Sokrati Technologies Pvt. Ltd, Pune	In the beginning I was part of sales team. My role was to identify new prospects (leads) in US and UK region, generate their contact information and after generating their email address I forward those leads to my mentor for emailing. In the beginning I used to generate around 100-150 leads in a week but when my mentor introduced tools such kickbox.io, rapportive, I was able to generate 500 leads in a week. Later I started reading blogs to find ways to optimize emails. After finding enough material I started creating my own email templates and got those email verified from my mentor. Soon we were using my email templates for outbound in US and UK. While doing all this I was still generating new leads. Later in May I was shifted to Marketing Team, to handle the company's CRM system called Pipedrive. Initially my job in marketing team was to fill the empty data slots with relevant information in the various columns (Organization country, Vertical, Website Traffic and Email Address columns). Once the details were added, I was given the task to handle market research dashboard, and lead MIS sheet. Any leads that used to come from various campaigns were first added in lead MIS sheet and were marked relevant or irrelevant. Then all the relevant leads were distributed among various sales reps and the lead information was added in the Pipedrive. I was also tasked with maintaining the daily Pipedrive status report which contained information about various deals in various stages of sales reps. Overall experience of Sokrati as a PS-2 Station was amazing. PS-2 at Sokrati provided me with great learning experience. This PS station doesn't require any pre requisite for my role but certain communication skills and email writing skills is needed. Mentors here are amazing; they will guide you and help you out on every step. You can also switch teams if you want to learn something new. Being a startup work culture at Sokrati is informal and people here are super helpful. Office timings are flexible, you can to office till 10 -10:30am and leave around 6:30-7pm but depending upon your work, sometimes you have to come early at 9am while sometimes you have to stay late until 10pm. The exposure in the field of sales this PS station provided was great and I sincerely believe that because of experience I gained here I am better prepared for the future and will help in smoother transition from academics.	2015-16-sem2

Company	Experience	Year
Sokrati Technologies Pvt. Ltd, Pune	My overall experience at Sokrati has been quite pleasant. Initially I was in the sales team with Mr Rohit Kelkar as my head. In the Sales team, I learnt how the company functions as a business, how to interact with clients, the kind of clients we should reach out to and i learnt how to write emails and elicit responses from the clients. During this time,i got interested in the business analytics side of things after a formal training session and a number of informal ones,i moved to te business analytics team and started working there. At this time, I didnt have an immediate supervisor but my head manager was Mr Saurav Kumar Patwari who was the head of Business strategy. During this time,i learnt about the technical side of things and how Google Adwords and facebook are used to run ads for various clients. I kept working for different teams in the business analytics department across all sorts of clients, Real Estate Clients,apparel & electronics clients, Lending Services clients,etc. I was allowed to explore and learn on my own and as a result I did a wide range of activities and got to know a lot about how the whole online ad industry functions. Sokrati's best selling point is its open work environment and a lack of professional rules and bureaucracy. People are nice and helpful and will assist you if you need their help. The company is still a startup and has a long way to go, and they have come a long way in the last 4 years from 20 employees to 200. As an internship station, Sokrati offers a lot of learning oppurtunities and will help you a lot if you choose to continue in this field.	2015-16-sem2
Solar Energy Corporation of India , Delhi		2019-20-sem2

Company	Experience	Year
Solar Energy Corporation of India , Delhi	I had to design Field Quality Assurance Plans (FQAP) for construction purposes. FQAP is very important document that helps in smooth communication of designers and site engineers. It is also used in maintaining the quality of work done on the site. I studied the existing versions of FQAPs, identify and analyze their limitations. I then studied the tenders, relevant IS codes and other reference documents and try to increase their scope. Tool used (Development tools - H/w, S/w) : MS Word, MS Excel, MS Powerpont, AutoCAD Objectives of the project : To design Field Quality Assurance Plans (FQAP) for construction purposes Major Learning Outcomes : In-depth knowledge of designing and practical aspects of construction, the problems faced Details of Papers/patents : Brief Description of working environment, expectations from the company : The company environment is good. Everyone in the office is extremely professional and helpful. The employees are extremely motivated, disciplined, dedicated and knowledgeable. The work given is challenging but at the same time not very stressful. Students interested in company's field of work can learn a lot. Academic courses relevant to the project : Foundation Engineering, Design of Concrete Structures, Design of Steel Structures, Surveying, Fluid Mechanics, Hydraulic Engineering, Construction Planning and Technology.	2019-20-sem2
Spicer India Ltd. , Jodalli		2018-19-sem2

Company	Experience	Year
Spicer India Ltd. , Jodalli	The working hours required for each shift in inward inspection is 765 mins. The objective of the project is to reduce that time. To that end, key areas are identified by analysing the work activities. Why- why analysis is used to find root causes, and redundant data entries were eliminated using automation. Excel automation using VBA language programming is also implemented. Further suggestions are given to the management to reduce working hours effectively. Tool used (Development tools - H/w, S/w) : Microsoft Excel Objectives of the project : To reduce working hour at inward inspection department Major Learning Outcomes : Learnt about Supplier Quality Control processes in an automobile component manufacturing company. Details of Papers/patents : Nil Brief Description of working environment, expectations from the company : The working environment was hectic at first. But with time, I got used to working and enjoyed my time at the company. Management and engineers working at the company is helpful. Academic courses relevant to the project : Quality Control Assurance and Reliability (ME F443)	2018-19-sem2
Splash Math , Gurgaon		2019-20-sem2
Splash Math , Gurgaon	Created a service for Push Notifications using AWS SNS in Java in first project. Then created a mailing service to send offer mails to the users in second project. Then created licence and subscriptions for premium users using Stripe and Java in third project. Tool used (Development tools - H/w, S/w) : Spring framework, IntelliJ framework, Thymeleaf, AWS SNS, PostGreSQL, Postico, Stripe, Airbrake. Objectives of the project : To send push notifications to users.To send offer mails to users.To create licence and subscriptions of premium users. Major Learning Outcomes : Learnt how to work in teams and how to work under pressure, face deadlines. Got exposed to many new softwares. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is very good. But they expect you to finish the assignment within the deadline. Academic courses relevant to the project : -	2019-20-sem2
SRF Ltd. , Gurgaon		2018-19-sem2

Company	Experience	Year
SRF Ltd. , Gurgaon	I was involved in preparation of BEP(Basic Engineering Package) for expansion of P-14 plant . BEP includes all the relevant basic information required for the expansion . Columns specifications, Exchangers simulation data, Material Balance, IPDS(Instrumentation Process Data Sheet) ,PDS(Process Data Sheets) ,P&ID , Fabrication sheets. BEP preparation is necessary for expansion of any contnous or batch plant which serve as the backbone of the plant which is running or being considered for further expansion. Tool used (Development tools - H/w, S/w) : Aspen plus, Aspen EDR , MIXIT, Microsoft Excel Objectives of the project : The objective of the project was to prepare the basic informative package which will contain all the parameters, necessary documents, Material balances necessary for the expansion of the plant. Major Learning Outcomes : Column and Exchanger Simulation Understanding of P&ID , PDS, TEMA sheets Types of Valves used , Utilisation of various Different heat Exchanger Configurations, Line list Preparations, IPDS,PDS, HAZOP analysis Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Heat Exchanger Designing Process Equipment Design Distillation Design Mass transfer Heat Transfer	2018-19-sem2

Company	Experience	Year
SRF Ltd. , Gurgaon	i was assigned with the preparation of BEP for P14 Project . BEP consists of all the equipments necessary for the plant expansion and to know about all the information regarding the processing of the plant. It consists of PDS,SMDS,IPDS,INDEX,Material Balance, simulation . I was also involved in Fired Heater Designing(calculations till simulation phase) EDR simulations for P-35 project. Tool used (Development tools - H/w, S/w) : ASPEN EDR ASPEN PLUS MIXIT Objectives of the project : Preparation of B.E.P package of P-14 Pant expansion from 150TPA-350TPA Major Learning Outcomes : Columns and exchanger designing Material and Energy Balance ASPEN simulations ASPEN EDR Pipe sizing and line sizing Details of Papers/patents : Brief Description of working environment, expectations from the company : The company is a great atmosphere for learning and the team members are very supportive in nature for helping you out in understanding the problems associated. The company treats you equally responsible and give you ample opportunities to learn and explore . They will surely helps you in getting a feel of how the process industry works and what is the role of process design engineer. Academic courses relevant to the project : HEAT TRANSFER MASS TRANSFER PROCESS EQUIPMENT DESIGNING ASPEN PLUS PROCESS CALCULATIONS PUMPS	2018-19-sem2

Company	Experience	Year
SRF Ltd. , Gurgaon	Production of fine agro chemicals, pharmaceutical products and refrigerants in multipurpose plant (MPP) located in Dahej. so, for the production of these chemicals i have prepared Basic Engineering Package (BEP) for Batch Process. Basic Engineering Package consists of Material Balance, Energy Balance, Equipment Designing, Preparation of Block Flow Diagram, Understanding Process Flow Diagram (PFD) and P&ID and Hydraulics Calculation. so, i have involved in designing of falling film evaporator, calculation of Material Balance, Energy Balance, Hydraulics Calculation, Designing of pump, Preparation of Campaign Schedule. Tool used (Development tools - H/w, S/w) : MixIT, Microsoft Excel Objectives of the project : So, for the production of any new chemical, it requires designing of basic engineering package which consists as: (1) Understanding the reaction chemistry, (2) Material & Energy Balance, (3) Preparation of BFD and Campaign Schedule, (4) Equipment Designing, (5) Understanding PFD and P&ID Major Learning Outcomes : Material & Energy Balance, Designing of Centrifugal Pump, Designing of Heat Exchanger, Understanding of Process flow diagram and Process and Instrumentation diagram, preparation of instrumentation process data sheet, Line sizing calculation. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment at SRF Limited Gurgaon is too good, you won't feel like an outsider or an intern because everyone is cooperative, flexible timing. so, that's why everyone likes this kind of environment. Academic courses relevant to the project : Chemical Process Calculation, Fluid Mechanics, Heat Transfer, Process Equipment Design, Mass Transfer.	2018-19-sem2

Company	Experience	Year
SRF Ltd. , Gurgaon	The project undertaken was related to milling of bulk solid into powder. The sample given was highly sensitive to heat. Different tests were carried out on the sample and analysis was done based on these results.Burning test, MIT, MIE, Dust explosion test, percussion test and powder resistivity test were carried out for the sample and based on the analysis of these tests various safety measures were suggested. Process hazard analysis was done based on these results and protective and constructional measures were suggested. Tool used (Development tools - H/w, S/w) : MS Excel. Objectives of the project : The main objective of this project was to safely mill the bulk solid. The main purpose of this project was to go through the tests results of sample and then suggest the constructional measures and precautions required for milling bulk solid safely. Major Learning Outcomes : Process plant safety. Hazop study. Details of Papers/patents : Brief Description of working environment, expectations from the company : Professional working environment, with helpful employees. Ample opportunities to learn about process plant design. Academic courses relevant to the project : Process plant safety, Seperation Process.	2018-19-sem2
SRF Ltd. , Gurgaon	Brief write-up on PS-II station : SRF Gurgaon focus on innovations in chemical technology. The students were able to perform well.	2019-20-sem2
SRF Ltd. , Gurgaon	Pump and line sizing , Scrubber design , Fume Venting , instrumentation and equipment design, reactor design, utility selection and optimization. Tool used (Development tools - H/w, S/w) : Aspen Objectives of the project : To design a scrubber according to HCL fume venting. Major Learning Outcomes : Operation criteria and working of scrubber, reactor utility optimization technique, selection of instruments and their application on pipe lines and equipment, pump selection criteria and line sizing . Details of Papers/patents : Brief Description of working environment, expectations from the company : Friendly and caretaking management , helpful mentors, cooperating co-workers. Comfortable office work. Academic courses relevant to the project : Mass transfer operation , chemical process calculation , heat transfer , process Dynamics and control, fluid Dynamics.	2019-20-sem2

Company	Experience	Year
SRF Ltd. , Gurgaon	The work at the PS station was related to the process design which involved calculations related to Mass and Energy balance. It also involved making of Block flow diagrams, Process Equipment List and Process flow diagrams. All this designing is done in order to estimate the total cost of a product required. Tool used (Development tools - H/w, S/w) : MS-EXCEL, Aspen Plus Objectives of the project : Process Development and Scale up studies of new products Major Learning Outcomes : Scale up, Process design Experience and Some reactor design Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is good. The whole staff and team were quite supportive and helpful. Academic courses relevant to the project : Chemical Process Calculations and Process Design Principles	2019-20-sem2
ST Microelectronics(I) Pvt.Ltd. , Greater Noida		2019-20-sem2

Company	Experience	Year
ST Microelectronics(I) Pvt.Ltd. , Greater Noida	The newer technology nodes has created enormous design challenges (like- parasitic becoming comparable to circuit resistance and capacitance, increased Electromigration and IR challenges, ballooning of DRC checks etc) thus EDA tools and methodologies used earlier have now become obsolete. Semiconductor industry needs tools which use machine learning and big data to predict yields, faults, reliability, aging curves, etc for electronic circuits even before they are even fabricated so as to decrease timeto-market speed. I had a privilege of working on beta versions of two such tools, running various test cases on them (for doing process/statistical variation) and providing feedback so as to further improve these tools. One of tool after the evaluation presented by me was purchased the company while the others purchase was delayed as it did not bring the value for money and performance enhancement as expected by the company. Tool used (Development tools - H/w, S/w) : Virtuoso, Custom Compiler, Eldo, Spectre, Hspice, Wicked, Calibre, etc. Objectives of the project : Objective of my training was to improvise the methodologies used for yield analysis through pre and post layout simulations (which included verification and statistical/process variation), in order to meet the time-to-market with reasonable accuracy. Also Major Learning Outcomes : I learnt about the state of art technologies like FD/PD-SOI (their design, advantages, limitations & future scope) used in the semiconductor industry at present. Then I also had a familiarization with the various EDA (Electronic Design Automation) tools. Details of Papers/patents : Brief Description of working environment, expectations from the company : Work environment is quite good. People are always ready to help, one gets a great exposure by knowing about the recent trends in the industry and new technologies that are under development. There is little difference in the work given and result expected from interns and employees, which I suppose makes this a great place to grow professionally. Academic courses relevant to the project : Electronic Devices, Microelectronic Circuits, Digital Design, Analog Electronics.	2019-20-sem2
Sun Mobility , Bangalore		2019-20-sem2

Company	Experience	Year
Sun Mobility , Bangalore	I was taken as an intern to reduce the production takt-time of the wheeler pack battery production. I have to study every assembly and subassembly stage on every micro detail and also the operational sequences of the production to optimize the time for production purposes. Give different methods or tools, tackles to reduce the human stress. That requires designing of tool, get the supplier's contact and get it manufactured. That also involves different discussions with suppliers about technical details of the product and processes. Get the quotations and also the bargains to do businesses. Tool used (Development tools - H/w, S/w) : Creo Parametric, MS word and excel Objectives of the project : To reduce the production time of one of the products. Major Learning Outcomes : Learnt about industrial sector on how any kind of engineer works and also how business runs between two companies. The different kinds of production processes from mechanical, electrical and software perspective. Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment is perfectly balanced by the number of freshers and also the experienced people. All the managers are easily approachable.It is really good place to learn anything like supply chain management, Production of different products, in view of electrical, software, mechanical and also in business terms. Can go and meet any employee and ask to learn about something. Academic courses relevant to the project : Machine Design and drawing, Production Techniques, Thermodynamics, Electrical circuits, Finance management, Material sciences	2019-20-sem2
Swiggy Bangalore	Swiggy has developed an android application and a website for ordering food from restaurants online through website. The customer places an order using mobile phone or computer. The placed order is assigned to a delivery boy either automatically by order processing system or manually from UI dashboard. I worked on the automated order processing system of Swiggy. My project involved working on the components of the full stack of software that deals with automated order processing. I worked on multiple features related to improving the performance of the system and optimising the cost and time of order delivery. The skill sets required for the projects were Core Java, Spring, Hibernate, Django, Python, HTML, Javascript,Jquery, Redis, MySQL and RabbitMQ. Few of these skills, like Core Java, was learnt from my previous work experience and academic projects. For web	2015-16-sem2

Company	Experience	Year
	development and technologies like Spring and Hibernate, I learned from training videos and internet resources. I have read Django from Django documentation. In the initial days, it was very tough to get used to the newer technologies like Django. My mentor and my team-mates helped a lot during the course of internship. My learnings from the PS-II experience is on the following areas – Software development skills, Software Design Skills and Soft skills. In terms of software development skills, Swiggy followed the lean methodology of developing a software feature in the shortest possible time without compromising on the quality. Object oriented programming languages and frameworks are being put into great use for rapid application development. In terms of Software Design, I practically learnt about how to make independent applications to talk to each other through messaging or through a common persistent storage like databases. This lead to developing independent smaller components and thus increasing the stability of the software system as a whole. In terms of soft skills, I learned good email communication, following up on work items pending with other teams, pro-active communication and presentation skills and verbal discussions. The technology stack used at Swiggy is very recent and getting to use all the recent technologies together for building a complex system is a great learning for me. My major accomplishment during the internship is the software developed for generating cash report of each food order. It is one of the critical piece of software delivered during the PS-II internship. It is used by the finance team of Swiggy heavily to validate the cash inflow/outflow of every food order.	
Swiggy Mumbai	I completed a one year long Practice School-II with Swiggy, Mumbai. The overall experience of working in this hyper-growth startup and seeing it transform from a nascent startup company to a leading player in the food-delivery market has been an absolutely brilliant one. During the last one year, I have sequentially worked on multiple work-streams, each giving a lot more ownership and learning than the previous one. I started off the first semester by helping the launch team start the business in the city of Mumbai. This was what we called a 'Startup within a startup' experience and involved doing a variety of tasks viz. taking in the first ever hungry customer call at Mumbai office, helping on-boarding efforts for delivery boys and even delivering an order when we ran out of enough delivery supply! Within one	2015-16-sem2

Company	Experience	Year
	month of the launch, I was transferred to the operations team. Here I was tasked to work with the operations management team to help setup and implement scalable processes to ensure business serviceability across the Mumbai region. This basically involved drafting SOPs, training the on-ground teams and developing data dashboards for continuous monitoring. Over the period of the next four months, I took complete ownership of multiple modeling related work-streams in the operations team including payout incentives for delivery executives, supply planning for hiring targets and even fraud detection algorithms for absconding delivery executives. These 6 months of on-ground operations coupled with the experience of large data management gave me an invaluable insight into the nuts and bolts of the food delivery business. With 6 months of on-ground operations experience under my belt, I volunteered to work with the central leadership team based out of Bangalore. I was assigned to work as an analyst to the General Manager for Vendor Management. This gave me the opportunity to get a more holistic bird's eye view of the entire countrywide operations. I could make significant contributions to a major cost cutting project focused on improving vendor KPIs across all the 8 cities in India. In the last 6 months I focused on developing dashboards for identifying problematic vendors, carried out feasibility studies on the impact of cutting down "low business, high ops issues" vendors and assisted in driving a quarter long change management exercise where I was directly reporting to the leadership team of the company. This gave me a first hand experience of thought processes that go into managing a large startup like Swiggy. Successfully managing the competing interests of multiple stakeholders while being steadfastly focused on the core company goals has been the most important takeaway from this experience. To summarize, the experience of being a part of startup like Swiggy has been quite a fulfilling one. It has given me a great deal of insight into how sustainable companies are built brick by brick. Moreover, the very range of exposure; from CXOs to delivery boys has given me the ability to think from a macro to micro perspective which I believe which go a long way in the professional life ahead. Word of Advice: The only caveat of working in a startup is that the work is only as great as one's skill-sets. So if you hope to come and learn in any startup, make sure you come with the attitude & aptitude to add value from your side first. It is in the process of contributing that your learning will happen.)	

Company	Experience	Year
Symantec Software Solutions Pvt. Ltd - Data Analytics,	Bangalore Comment: Work done by student is good, sincere and professional in the approach and very hard working. Being adaptable from college to industry environment and punctual in all deliverable is expected of the interns. Comment: Clarity in the work done by the intern with innovative solutions is much appreciated. The thinking ability and articulation of open suggestions to solve blockers in project is seen in the intern and is commendable. Comment: Work done by the interns are good and they are proactive, punctual in responding back, deliverable. Expectations from interns would be to align their way of thinking professionally w.r.t to the expectations of the project requirement and basics programming skills are required. Comment: Work done by the intern is good and he was able to achieve the allotted requirements in time. Expectations form students are: Good presentation and communications skills, Technical skills in programming data structures and coding them, expect a short learning curve of maximum 5 weeks to acquire skills in internal tools/ technology used in the organization. Comments: Industries expect students to be adaptive, proactive, quick learners and a professional in deliverable. With respect to technical skills clear understanding and expertise in common technologies like JAVA, J2EE, Database, HTML, few Scripting languages are expected of interns. Student	2016-17-sem2

Company	Experience	Year
Symantec Software Solutions Pvt. Ltd - Data Analytics,	I am working on a live project which is on building a search and aggregation application for big data. I worked on various aspects of the project - from ingestion of real time data to automation of data validation. I have also worked on removing duplicate data from a distributed data store like Elasticsearch. Tools used (Development tools - H/w, S/w): Bash scripting, Elasticsearch, Apache Hive, Apache Storm. Objectives of the project: The live project I am working on is about building a search and aggregation application for big data. Outcomes of the project: The live project is about to go into production stage. Major Learning Outcomes: I have experienced agile software development. My mentor was very helpful and guided me throughout the project. I talked to a lot of knowledgeable people in particular technical domains, especially big data and scripting. I have learned to work with deadlines and learn on the go. Brief Description of working environment, expectations from the company: The working environment is supportive and friendly. But depending on the project you are on, there might be hard deadlines and a lot of pressure. In general, knowledge of OOP concepts and hands-on with Java is a requirement for almost every team here.	2016-17-sem2
Symantec Software Solutions Pvt. Ltd - Data Analytics,	Reliability, fault tolerance and optimizations in stream processing. Architecting workarounds for dynamic topology modification in Storm and Trident. Tools used (Development tools - H/w, S/w): Storm, Kafka, Spark, Hadoop, HBase, Scala and Java. Objectives of the project: Implement fault tolerance for stream processing with Kafka and Spark. Outcomes of the project: Implemented and optimized system with a performance gain of 113% on sample data. Major Learning Outcomes: Knowing the inner workings of the big data stack provides insight into utilizing the stack better and writing optimized code in the first iteration. Brief Description of working environment, expectations from the company: Very friendly, enthusiastic colleagues. Not hectic for the most part. Great hands-on learning experience. Expect to get work if proactive.	2016-17-sem2
Symantec Software Solutions Pvt. Ltd - Data Analytics,	I was in Gateway Security team (VIP Team) and my work mainly covered the incomplete as well as new POCs (Proof of Concepts). I started by testing a 3rd party SDK which provides on authentication based on behavioral analysis of the user. I created sample application on both android and iOS platforms using the SDK and tested the efficiency of the SDK. Later I worked on another 3rd party SDK of similar kind. Then	2016-17-sem2

Company	Experience	Year
	I was involved to explore Perfecto, which is a cloud-based platform for web, mobile & IoT software testing. Later, I created custom keyboard for one of Symantec's android application and Today-Widget extension for the corresponding iPhone application. Finally, I created a web application on Node.js (deployed on AWS) and an iPhone application to demonstrate the functionalities of Symantec's VIP CDK to Symantec's customers. Tools used (Development tools - H/w, S/w): Xcode, Android Studio, Eclipse, Zeplin, SoapUI, Perfecto and devices (Mac, iPhone, Android devices and Verisign token), Symantec VIP CDK and other 3rd party SDKs. Objectives of the project: 1. Build sample android and iOS applications testing the functionality of some 3rd party SDKs. 2. Explore the usage of Perfecto for unit testing of applications. 3. Build custom keyboard for android and today-widget extension for iPhone applications. 4. Build a web application (Node.js) and iPhone application to demonstrate Symantec's VIP CDK's capabilities to Symantec's customers. Outcomes of the project: Successfully tested and evaluated all 3rd party SDKs. Explored Perfecto and how to use it and reported to the team. Built custom keyboard and today-widget extension for android and iPhone applications respectively. Built web application and iPhone application to demonstrate Symantec's VIP CDK's capabilities to Symantec's customers. Major Learning Outcomes: Got to know about existing technologies and modern security features used by major security companies. Learnt iOS development (Swift 3, Objective C, Keychain access, Security in iOS devices). Learnt android development (Android Studio). Learnt to create widgets and extensions in android and iPhone applications besides making general applications. Learnt Node JS, Express JS, Bootstrap, and about AWS Deployment. Brief Description of working environment, expectations from the company: The working environment at Symantec is the best a graduating intern can ask for. We were given ample flexibility in order to adapt, learn and produce the output. We had access to most of the resources that we needed and were helped by each and every team member in case of any technical or other difficulties. The company expects that we working on the pending pool of POCs (projects), where we can also provide any suggestions to improve the efficiency of their products and if we want we can work on the same too. In a nutshell, Symantec asks an intern to keep themselves involved in some or other project and provide important feedback/suggestions (if any) from them.	

Company	Experience	Year
Symantec Software Solutions Pvt. Ltd - Data Analytics,	Developed a strong authentication for windows login using Universal Second Factor (U2F). Tools used (Development tools - H/w, S/w): Visual Studio. Objectives of the project: Provide a strong authentication mechanism for windows login using a two factor authentication with the help of Universal Second Factor (U2F) technology. Outcomes of the project: Strong authenticator for windows login. Major Learning Outcomes: Detailed analysis of how login in Windows works, how to provide a custom login mechanism for windows, understanding U2F protocol. Brief Description of working environment, expectations from the company: As of now, Symantec is not giving PPO to any interns. They have the requirements for candidates with experience in this field. Symantec as a company is employee friendly. The staff here is helpful and can help you in case you have any difficulties with the projects assigned. The working hours are 10 to 5. But, it's up to you, as no one monitors you. But this also depends on the manager you are assigned to. You get to work on latest technologies: Machine learning, U2F, to name a few. There are also projects related to android and ios app development. As of perks, you don't have to worry about the travel, since Symantec have their cab system. For lunch, it's not provided by Symantec, but there is Bay area in the campus, wherein you have quality restaurants. But Symantec has cafeterias, where you get snacks. So you can have your breakfast in cafeterias.	2016-17-sem2

Company	Experience	Year
Symantec Software Solutions Pvt. Ltd - Data Analytics,	(1) Design and Development of a cloud-ready full-stack web application to automate the installation of SSL certificates for websites/applications hosted on Amazon AWS Cloud service. (2) Development of a Symantec Partner Portal to generate reports and analysis using Modern UI frameworks. Objectives of the project: (1) Design and Development of a cloud-ready full-stack web application to automate the installation of SSL certificates for websites/applications hosted on Amazon AWS Cloud service. (2) Development of a Symantec Partner Portal to generate reports and analysis using Modern UI frameworks. Outcomes of the project: Two production ready software applications. Major Learning Outcomes: Practical Experience in Software Design and Development lifecycle. Brief Description of working environment, expectations from the company: Intern projects are selfcontained and they are independent of the work carried out by mentor/managers/teams. Not too much importance attached to intern projects and hardly any time is devoted by the manager to address your concerns or to monitor/guide the project development. Nature of project is pure software development.	2016-17-sem2
Symantec Software Solutions Pvt. Ltd - Data Analytics,	Developed a cross platform mobile app. Tools used (Development tools - H/w, S/w): phonegap, nodejs. Objectives of the project: To send ssl/tsl certificate renewal notifications. Outcomes of the project: project almost completed and currently in testing phase. Major Learning Outcomes: Learned about mobile app development which can run on all the platforms from a single source. Brief Description of working environment, expectations from the company: Working environment was good, people were very nice and helpful.	2016-17-sem2

Company	Experience	Year
Symantec Software Solutions Pvt. Ltd - Data Analytics,	There were multiple projects I worked on during my internship. The first was building an automated testing framework for a Company product. The second project was helping in the development of an API gateway. Tools used (Development tools - H/w, S/w): Java, Spring Framework, Lua and Python. Objectives of the project: Automated Testing Framework for Risk Insight. Outcomes of the project: Succesfully built the test framework. Major Learning Outcomes: Learnt a lot about test frameworks. Brief Description of working environment, expectations from the company: The Company is a good place to work and learn. My mentors and managers were supportive through out the project.	2016-17-sem2
Symantec Software Solutions Pvt. Ltd - Data Analytics,	Pune	2016-17-sem2
Symantec Software Solutions Pvt. Ltd - Data Analytics,	My project was on finding malicious URL using machine learning. I was given URL and the algorithm will tell whether it is good or bad. Tools used (Development tools - H/w, S/w): Mysql, Ubuntu. Objectives of the project: Finding malicious urls automatically so that it will save time of SREs. Outcomes of the project: Algorithm was giving result with 75% accuracy. Major Learning Outcomes: Neural network, support vector machine. Brief Description of working environment, expectations from the company: Work life balance. Team is good and friendly. More of the work is about analysis.	2016-17-sem2

Company	Experience	Year
Symantec Software Solutions Pvt. Ltd - Data Analytics,	I did a R&D project to identify the intention of a non-PE file. Built a parser for JS. I was not able to get the original project to work but I modified my parser to find the complexity of any function call in a file that helps in identifying obfuscation which can be further developed to identify malicious files. Tools used (Development tools - H/w, S/w): NodeJS esprima library, Python BeautifulSoup library. Objectives of the project: Identify what a nonPE file is trying to do without executing the file. Outcomes of the project: We were unable to get results with ML or NLP techniques. Though it might be possible to identify if the file is obfuscated or not. Major Learning Outcomes: Doing this project I learnt about compiler design, ML and NN. Details of papers/patents: If the company decides to use the idea of using complexity as a measure to decide if a file is malicious or not then there is a possibility of patent. Brief Description of working environment, expectations from the company: Working environment is fairly nice, no work timings are there, most projects are expected to be of ML, Hadoop related instead of exact security related as expected by most people.	2016-17-sem2
Symantec Software Solutions Pvt. Ltd - Data Analytics,	Developed a front end for editing digital certificates. Tools used (Development tools - H/w, S/w): Java, XHTML (primefaces). Objectives of the project: Same as summary. Outcomes of the project: Same as summary. Major Learning Outcomes: Learnt about software integration and how to develop an intuitive front end design for a complex process. Brief Description of working environment, expectations from the company: Laid back, no strict timings. Just deliver your project and done. (This depends on the team you are assigned to. Other team was a bit strict about project deadlines and had more work).Learning curve depends on your project.	2016-17-sem2

Company	Experience	Year
Symantec Software Solutions Pvt. Ltd - Data Analytics,	My project was to identify the intention of a nonPE file. To find what a file is doing I extracted all the standard function calls that a file is trying to make and also extracted the documentation of the language from appropriate sources. The next thing was to extract meaning from the documentation tree of the file thus prepared. We tried to search for ML or any NLP technique that might be deployed for this purpose but no such techniques were there. So the main project wasn't a success. As a by product of the project, we were able to identify if a file is malicious or not using a new criteria. Tools used (Development tools - H/w, S/w): Esprima, BeautifulSoup. Objectives of the project: Identify the intentions of a non-PE file. Outcomes of the project: Main project that was assigned became unsuccessful but we identified a new factor to identify a category of potential malicious files. Major Learning Outcomes: I learnt about JS, web scraping, how to keep our system secure and online attacks. Brief Description of working environment, expectations from the company: Working environment was very comfortable. There are flexible timings, mentors are encouraging. Projects can be expected from machine learning, data mining and cryptography fields with high potential.	2016-17-sem2
Symantec Software Solutions Pvt. Ltd - Data Analytics,	Ported a pre existing search solution to an open source platform. Tools used (Development tools - H/w, S/w): Java. Objectives of the project: Faster searching. Outcomes of the project: Ongoing. Brief Description of working environment, expectations from the company: Company wants work done so that they can include it in the next release of the product.	2016-17-sem2
Symantec Software Solutions Pvt. Ltd - Data Analytics,	Business Development. Tools used (Development tools - H/w, S/w): Excel. Objectives of the project: TapChief Expert Signup Page. Outcomes of the project: Well recognized by administration. Major Learning Outcomes: Growth in Startup. Brief Description of working environment, expectations from the company: Stable, helpful, fast paced.	2016-17-sem2
Symantec Software Solutions Pvt. Ltd., Bangalore	You can't build a great building on a weak foundation, you must have a solid foundation if you're going to have a strong superstructure. Internship at Symantec worked for me in the same way.In Symantec, I worked in the PKI team which is involved in the issue and revocation of SSL certificates. My task was to scale the certificate production so that throughput is increased. I started my voyage by learning the certificates in general and basic public key cryptography, then	2015-16-sem2

Company	Experience	Year
	I moved to understanding the spring batch which is an open source framework for batch processing. Then I learned about messaging queues and its usage in real applications. I also got my hands on current caching technique Redis. I essentially worked on spring batch, I used Remote Partitioning which is a master-slave concept for the parallel generation of certificates. Master and slaves were in different JVMs which communicate via ActiveMq which is a consumer-producer model for asynchronous tasks. My project also involved using Hibernate which is an ORM (Object-relational mapping) tool for mapping objects to the database. Along with this, I also learned some advanced topics in Java like Annotations, ReflectionThe internship was a good learning experience as I had the mammoth task of not only familiarizing myself with Certificate Generation , Parallel task execution but also work on it, in real time.But more importantly, the understanding of working as a team, the necessity of working with expectations and deadlines and being committed to your work was the most important take away from the experience.In my time here, I learned how to work alongside other people and learned the true meaning of teamwork and how important colleagues are in an office space. From my seniors, I learned the way to guide a person working under me. The way my mentor listened to my doubts and provided me with the right amount of help, not too much but just enough to set me on a path of selfdiscovering the solution. It has certainly put me in a better place, where I can easily bridge the "experience gap" between understanding and performance, which otherwise was missing.My knowledge of cryptography and certificates has escalated. Before coming I had only the basic knowledge of the Security, Messaging, Caching, Java etc, but after all these months in Symantec, I can apply all these concepts in the real applications. I can confidently put these as my interests and skills. I am more disciplined as a person and I am looking forward to similar experiences. The industrial experience provided good expertise and the confidence to go ahead and be a part of such an ecosystem. I would like to round by saying that working at Symantec has left me stronger both cerebrally and spiritually. This has been an experience of a lifetime and has definitely made a better engineer and a better person.	

Company	Experience	Year
Symantec Software Solutions Pvt. Ltd., Bangalore	Symantec Corporation is an American technology company. The company produces software for security, storage, backup and availability - and offers professional services to support its software. The project assigned to me was CRL generation using java. The objective of project is to build a distributed CRL Engine which will generate CRL(s) for all of CA(s) based on frequencies provided by PKI-Admin. The application should be designed and built in a robust way to meet performance, scalability and high availability criteria for all CA(s) under given time interval in which CRL should be published to a client for download. Skill set required for implementing the project is advanced java, PKI architecture, Quartz Scheduler, Redis, MongoDB, Oracle DB, and OpenSSL, CRL. First month I spent on to study about the PKI architecture. Public Key Cryptography also called asymmetric key cryptography. This method solves the problem of secret key cryptography by using two keys instead of a single key. Quartz scheduler is used for periodically generating the CRL. In the second month the problem specification definition and design of the overall architecture defined. The overall learning was purely security based concepts oriented. After finalizing the design the coding process started and in the end testing of designed product. In terms of learning, the experience has been nothing short of terrific. The time spent at PS-2 has been a great teacher in various spheres, including but not limited to understanding corporate life, expert guidance, apprehending new technologies and their developments and building an essential character. In terms of academics, the training holds a lot of scope on a significant scale. One is expected to learn, work and develop on new technologies applying one's university education, which is, in itself, a mammoth task to achieve; so much that PS-1 appears to be a joke when compared to its senior and significant counterpart. Things taught in college are just not enough. The industry is working on feats that are a century ahead of what is taught as academics. Sure, the basics are still the same; but constant learning is not a myth- it's the very reality we exist in and PS-2 has just been a reminder of the same.PS-2 helps one to build their personal, knowledge base and interact with industry experts. The experience at PS-2 - if not affect my future career prospects - has at least made me aware of the current industry standard and situation and that adds to better chances at scoring a workplace.	2015-16-sem2
Symantec Software Solutions	My PS-2 Experience is wonderful and enriching in so many	2015-

Company	Experience	Year

Pvt. Ltd., Bangalore

sem2

ways. I spent 5+ months in Symantec Software Solutions, Bangalore as Intern which cannot be described nothing less than awesome. I enjoyed every bit of my tenure as Intern at Symantec. This Internship helped me in understanding what it takes to develop a world class product for enterprises. I learnt how to work in teams and help each other in order to complete the project on time. I learnt in great deal about how a product is proposed then how we plan its architecture and then model it to our needs then how development starts and later how its performance is measured and later how it is released. While my working as Intern I learnt more in 5 plus months about Computer science than I learnt in my whole 2.5 years in college. I learnt how actual theory learnt from college with some extra knowledge is transformed in hands on practical project development. I did total of three projects in my Internship. There is no special book that is needed to do these three projects but these projects require cumulative knowledge of many courses taught at college. Being an Information security expert it became easy for me to pick up the challenge with some ease but lot needs to be learnt from Internet. These projects require sound and through understanding of Operating System, Network Security and Cryptography which is most important of all. Also an individual requires good knowledge and hands on experience on working in Linux environment. My first project is about Certificate discovery and Vulnerability Detection. In this I build a tool from source code and run it on some old supported versions of RHEL by Symantec. In Vulnerability module I did research on 12 supported TLS/SSL Vulnerabilities by Symantec and device methods to detect these by our CIC product. This project requires extensive understanding about cryptography and TLS protocol of TCP/IP suite. Since I hold expertise in information security I was able to dig deep into project and this project enhance my knowledge and help me move from amateur to professional. My second project is on Big Data technology where I build Hbase database over Hadoop in Hybrid model. I come up with new architecture of storing data in hbase and provide a model to shift from Oracle database to my new Hybrid Hbase Model. In this project I learnt about JDBC and develop an equivalent way to connect to my Hbase database. From this project I get exposed to MVC code development of project. My third project is on Oracle In-Memory. This is a new feature provided by Oracle In its new release of database version 12c. This feature provides storing tables in column format like

Company	Experience	Year
	Hbase and other Big-data database does alongside with it's traditional row format. I measure the performance improvement of complex queries when In-memory feature is enabled and when not enabled. On the whole I will like to say my internship at Symantec helped me in transforming from beginner to advanced level in security domain.	

Company	Experience	Year
Symantec Software Solutions Pvt. Ltd., Bangalore	Working in Symantec is like me edging one step towards my aims and dreams. It has been a great experience working with one of the best companies in the IT world. Working with a company that is at the topmost level in the Security domain and whose products are globally used and trusted upon is a dream come true. The company and the people here are genuinely concerned about the threats that occur in the Computer Science domain and they continuously strive towards eliminating these threats. The main focus of Symantec, Bangalore is Website Security Engineering, which includes engineering products for securing web servers and different applications of the customers. The team which I was associated with was SAS – Secure App Service. The team's work was to create a code-signing applications for different application through Symantec cloud. I was assigned independent work of understanding different build tools and create a tool that determines the list of the artifacts each tool's build created before-hand and create plugins that will sign these artifacts. The project required knowledge of JAVA, different build tools, understanding of the build scripts and different output types. Prior to joining this project I had basic knowledge of java which was enhanced here during the project implementation. During my PS, I got acquainted with different build tools and the build script which was basically XML. I learned lot about these tools and how to parse the xml file and get the details I require. This has tremendously increased my confidence over my knowledge on java and these build tools, which I can very easily use in my future industry endeavors. The experience here has taught me, how approach any problem and get intended solutions various angles. This has definitely helped me to become more experience than what I was in BITS. The experience has increased my ability to interact with industry professionals and also increased my confidence in sailing into any waters in the IT industry.I would be very thankful to my mentors and Manager in Symantec who were always available when I required their help and helped me to get on track and guide me. Lastly, I would say that, experience at Symantec for these 5 months has created a gem of memory for years to come.	2015-16-sem2

Company	Experience	Year
Symantec Software Solutions Pvt. Ltd., Bangalore	My PS station is Symantec, Bangalore. I have been working here as a part of SAS team. The PS II duration has been an amazing learning opportunity for me. It is not only limited to understanding corporate life but expert guidance, apprehending new technologies and their development. I can definitely say that this experience has trained me immensely in the skill set, attitude and dedication required to work in corporate life. My project was to implement hash signing in java which was calculating the hash of the data and then getting it signed. For the implementation of the project, I had to learn a lot about various technologies like JCA, code signing, hash signing and some basic knowledge of shared libraries and APIs in java. I also learnt about various hashing and signing algorithms like RSA, DSA etc. This task helped me become familiar with basics of signing and hashing concepts. Apart from learning, I have also realized how working in corporate is different from academic projects. In industry there is a lot of emphasis on handling the boundary cases related to a given problem. Also, the problems are subjected to large number of stress tests so as to make them as bug-proof as possible. The programs are also reviewed by various people to reduce possibility of issues. The major take back that I have taken from this internship is that it has widened my knowledge base and awareness of the working in corporate life. It will definitely be of a great help in planning my career more pragmatically. Practice School experience has also helped us become familiar with the required professional attitude and the working environment of companies. We also got an opportunity to interact with and learn from many professionals who already have a lot of experience of working in industry. The constructive feedback from them has helped us in developing new skills as well as refining other skills. Hence Practice school has provided me ample opportunity to implement the techniques learnt in classroom as well as learn new concepts. My ability to solve the problems in the way advised and also in the time allotted is definitely an accomplishment for me. I sincerely believe that due to this hands-on experience we are now better prepared for the future and experienced gained here will help in smoother transition from academics.	2015-16-sem2

Company	Experience	Year
Symantec Software Solutions Pvt. Ltd., Bangalore	My internship at Symantec Corporation has taught me more than I could have ever imagined. I have been operating as a part of the Validation & Identity Protection (VIP) Team over the past 5 months and my experience has been awe-inspiring. As my interests lie in the field of Information & Cyber security, Symantec has given me a perfect kickoff to my calling. The major focal point of my project was to develop a generic Cloud based User Life-Cycle Management client for enterprise. In the process of accomplishing my tasks, I was let out to many new concepts and technologies. Although a significant portion of the task was completely new to me, applying the concepts that I learnt during my time at BITS, Pilani gave me huge satisfaction. PS-2 is ideal opportunity to produce a quiet transition from academic to a corporate life. Along with improving my technical knowledge, the past few months have taught me some invaluable lessons. Walking into Symantec with no prior Industrial experience made me nervous initially, but my mentor, my manager and the entire team has been absolutely wonderful throughout providing just the proper measure of direction. In closing, I would say that working at Symantec was definitely fun. I walk out of this place with a bag full of warm memories. I couldn't have asked for more.	2015-16-sem2

Company	Experience	Year
Symantec Software Solutions Pvt. Ltd., Bangalore	I was working with Symantec, Bangalore as my PS-II program. My project was under VIP (validation and ID protection) team. This internship period was great learning experience; I was exposed to many new technologies, like WebRTC, which is only 2-3 years old. My initial work involved working with android application to improve and introduce some desired features in it, later on I was shifted to iOS development. In primary stage, I learnt about android and iOS development. Also as part of project work, I had to learn many new technologies and APIs, like 3D touch, spotlight search, different methods of authenticating nearby devices, motion activity and other sensor data retrieval. Some of them were even less than 1 year old and had less resource to learn from. But the managers and mentors were readily approachable and really kind with the help. The company is not ignorant of new ideas from amateur minds. In fact they encourage us to come up with any new idea for the application or otherwise and take efforts to study and implement it. All the interns had independent and core projects and had great opportunity to learn various tools and technologies. I have seen some great appreciation of work here; even some of our work will be used in upcoming deployments with some improvements. All the doubts and bugs were entertained and regularly discussed and clarified. This was the best thing that I liked about working here. Practice School was prominent opportunity of working with corporate firm and industrial projects. Which made us learn many aspects of project, which are generally in dark in any academic project that we do in any other semesters. Importance is given for writing easily readable codes, following specified flow of program, adapting standard design patterns, separation of concerns and proper variable names, rigorous bug testing and code reviewing at many levels covers almost all corner cases that are to be considered in scope of the project. This experience has made us accustomed with attitude and working environment in any firm. Interaction and guidance from highly experienced personnel helped in improving learning curves and also in refining learnt technologies. This first-hand experience has prepared us for upcoming experiences and this will surely help in smoothing transition from academics.	2015-16-sem2

Company	Experience	Year
Symantec Software Solutions Pvt. Ltd., Bangalore	At Symantec Bangalore, I was a part of the Website Security Engineering Team. Here, my job responsibility was to carry out Research on HTTP/2 and Server Push Technologies. I conducted feasibility tests and checks on the capability of the existing software to support the Server Push features. This Project required a deep knowledge of Server side technologies and Computer Networks. I learnt these technologies through YouTube videos and W3Schools. My mentors at Symantec were helpful and regularly guided me to the right track when I deviated. Later on, I also worked on a Gradle Project, which involved intense coding in Groovy Programming Language. This part was very exciting and challenging. This Project helped me bridge a major gap in my knowledge in the domain of Computer Science. I learned how to automate the incremental delivery of the Software Systems in an Agile Development Environment. Both of my Projects were on technologies which were released recently. Hence, there was limited online resources and support for them. Such a situation made me capable to learn new technologies on my own and made me believe that I can start any Project from scratch. It has made me capable of leading and designing major Software Development Projects, a skill which may help me take up roles of Full Stack Software Engineer in future. My tenure at Symantec has also benefitted me non-technically. Its unique work timings have made me adopt to a fit and regular lifestyle, and have helped me to become more disciplined. Its wonderful recreational facilities in the office encouraged me to learn new games. Hence, I would say that I had a wonderful time at Symantec.	2015-16-sem2

Company	Experience	Year
Symantec Software Solutions Pvt. Ltd., Bangalore	As my degree specialization is information security the best part of my PS was the opportunity to work with Symantec Software Solutions which is a global leader in the field of cyber security. Past five months have been a great learning opportunity for me. I was not only trained technically but also exposed to the working standards of the industry. In Symantec working hours were flexible and interns were given the same treatment as regular employees. Employees are highly qualified and experienced. I was the part of Secure App Service (SAS) team. My team is working on the cloud based code signing SAS which is more secure and convenient than the traditional code signing process. As the part of my project I have worked to develop standalone code signing utility that would make the cloud based code signing more convenient for the users by shifting intelligence from cloud side to the client side and help to automate the code signing for large projects. In the first few weeks I have learned various security concepts like code signing, public key infrastructure (PKI), digital certificates. For the implementation of the project I worked on technologies like JAVA, JavaScript, web sockets, SOAP web services, Windows sign tool, Node.js framework. In my time here, I learned how to work alongside other people and learned the true meaning of teamwork and how important colleagues are in an office space. To conclude Practice School experience helped me to become familiar with the required professional attitude and the working environment of companies. It has provided me ample opportunity to implement the techniques learnt in classroom. The constructive feedback from my mentor has helped me in developing and refining skills. I would like to recommend Symantec for the people who are interested in information security domain.	2015-16-sem2

Company	Experience	Year
Symantec Software Solutions Pvt. Ltd., Bangalore	My PS 2 station was Symantec Software Solutions, Bangalore. As a student of ECE, PS2 at Symantec was a new learning experience into Computer Science components, like JAVA Programming, JSP, HTML and Website Building. I worked in the Indirect QA Team, where I was given a project to build a one stop User Interface for the utilities of the team. During this process, I learnt various programming skills like, JAVA, JQuery, JavaScript, JSP and HTML. I had to build a code to access various URLs based on certification access and remote login to remote servers, access configuration files and extract the needed information from them. I also built a tool to upload and run multiple scripts from the UI. During this process, I was exposed to various coding methods, which was a new experience and no doubt, a great learning experience. During my time here, I learned how to work alongside other people and learned the true meaning of teamwork and how important colleagues are in an office space. I also learnt problem solving skills and how to tackle problems swiftly. PS has helped me learn how to engage in corporate culture and balance work and life. It has been an overall development of personality, attitude and knowledge. We also got a chance to interact with the CEO and other top level managers and showcase our projects. Overall, PS2 experience was a great bolster to build our future career prospects and lay as a basic foundation for our future corporate endeavors.	2015-16-sem2
Symantec Software Solutions Pvt. Ltd., Pune	My project was a proof of concept project, where we had to show that we can represent dynamic behaviour of the execution of a program via means of an image and use that image representation with image classifier algorithm to determine whether the given file is malicious or valid file. It was a new idea that was shown to work theoretically. But there was no practical proof to this concept. Me along with my mentor worked towards the goal of coming up with a suitable image representation and training the image classifier model for classifying images to be malicious or non-malicious. We fixed one image representation where the events occurring during the execution of the file, are arranged in a square grid. Each cell on square grid represented existence and/or frequency of the event in a particular file. This image representation was used for building an image classifier model. Concepts of Deep Learning were used for building image classifier model. This involved training a neural network model known as convolutional neural network designed specifically for image	2015-16-sem2

Company	Experience	Year

classification problems. We showed that the trained model was able to classify images with more than 80% accuracy. It was a great learning experience of working on a real world project. In terms of technologies learned python and proper industrial level coding. This involved maintaining proper log files, exception handling, writing efficient algorithms, thorough testing of the code, and documentation. This skills are essential whenever one wants to build a perfectly running code. I got learn about theory and implementation aspects of neural networks and convolutional neural networks. I am really grateful to be able to learn these technologies. This learning will be really precious in my future career. Symantec, Pune had great projects for PS-II interns. We got to work with really intelligent people who were always ready to help whenever we needed. Also interns working there are treated as same as the regular employees and they will get almost all the benefits that regular employees would get. I will leave the company with great knowledge and professional life experience which I would have never had inside the campus. I believe PS-II program offered by BITS has a great impact on students in terms of preparing for future career. I like to thank PS-II division and all of the members working for it, for a really well organized and impactful program. Rachit Bhatia(2012A7PS077G) My PS was at Symantec Software Solutions Pvt. Ltd. Pune. The project that was chosen for me by my team there was a very academic one.The primary goal of my project was to enhance an open source tool called Drakvuf for hypervisor-based malware analysis. The software is still in active development. A lot of features which are common in commercial hypervisor-based malware analysis were added. My aim is to recognize all possible enhancements and code them into Drakvuf so that they can be useful as a scalable and effective malware analysis solution which saves the organization both time and money. A thorough understanding of C++ and Operating System concepts was a prerequisite for my task. The experience has benefited me immensely in understanding how professional organizations work. Adherence to deadlines, punctuality, and facing challenges positively as things to learn were one of the major takeaways. My mentors were BITSians which was a huge plus. They already knew what the curriculum was and guided me very well. They had a very balanced approach- giving me a gentle push in the direction to seek knowledge but not be very pervasive in my work. This gave me freedom to pursue my own ideas and often experiment with new techniques.

Company	Experience	Year
	When I left I was enriched in the basic concepts of hypervisor-based malware analysis in specific and computer security in general. My project is expected to achieve huge savings for Symantec. This system can replace proprietary software prevalent for this task. I was appreciated and encouraged by my team members in the organization.	
Symantec Software Solutions Pvt. Ltd., Pune	The project I worked during my time at Symantec was titled as "Building Intelligence on top of YARN Resource Monitor to maintain the health of the Hadoop Cluster" The primary goal of this project is to build an application on top of the Yarn Resource Manager present in the Apache Hadoop Cluster at Symantec which would add intelligence to it. The application would intelligently classify the applications running on the cluster as expedient or nugatory. The above application would help in freeing up the cluster resources, which would have otherwise been bogged down into these nugatory jobs. The project was a necessity at the corporation as there are hundreds of queries running everyday on the Hadoop Clusters of the corporation. The application aimed at providing a smooth running environment for these queries. The project required an in-depth knowledge of the functioning of distributed systems and especially Hadoop framework and its subsidiaries like Hive. The project also required basic coding skills in Java and Python. The project helped me realize the environment of application development in a commercial corporation which is quite different from what I was used to in coding competitions and course projects at the University.	2015-16-sem2

Company	Experience	Year
Symantec Software Solutions Pvt. Ltd., Pune	In the first few weeks after the practice had started, my assignment was to learn the basics and functions of the product Infoscale Access. I learned by reading manuals, clearing my doubts with the help of team members and sketching my ideas of understanding. I feel that this assignment time could be shortened by providing counseling hours from the experts in the respective fields. Nevertheless, it was a great experience to explore a great modern technology by myself. I was part of a team with primary objective of developing the web application for Solutions of Data Insights and Orchestration. I learned the prerequisites of web development like using GitHub and setting up development environment with Eclipse and so on. With first of the two assignments, I tried my hands on ExtJS, Java and other minor scripts which are required for running application. I learned the Agile too. SDIO alone out of Veritas' other products has a great potential to be worth of being a separate entity. My final assignment was to pick a module of commands and perform and introduce automation and automation scripts respectively to ensure the best functionality of the product. This assignment required us to learn the python scripting, server communications, python and Linux process debugging. We did Grey-box testing to automate interface interaction and functionality of the commands. But it is always better to do White-box testing and automate the source code. Since white-box testing puts great amount of work-load and consumes a lot of time, it is the organization's decision to do White-box. This was a very big opportunity for me to put hands on a large-scale data orchestration software. This project helped me to get an idea of overall architecture of software defined storage management application that is used for storing heterogeneous data. I had a hands-on experience of a number of scripting languages because of the product. Since many organizations in IT field collect thousands of terabytes of heterogeneous data, SDIO has a great opportunity to lead the IT industrial revolution.	2015-16-sem2
Symphony Fintech Solutions Pvt. Ltd. , Pune	Student	2019-20-sem2

Company	Experience	Year
Symphony Fintech Solutions Pvt. Ltd. , Pune	Worked on Financial Charting Application for Windows Operating System, Using C#.NET and Graphics9GDI+), Its used by Clients and Traders alike for analyzing trades of Indian Stock Market in Real Time. Tool used (Development tools - H/w, S/w) : Visual Studio(C#.NET) Objectives of the project : Financial Charting Win32 Application Major Learning Outcomes : OOP concepts, Graphics(GDI+) on Windows Platform Details of Papers/patents : Brief Description of working environment, expectations from the company : People, mainly CTO and project leads here are passionate, ever learning mentors, They help with work if stuck, discuss ideas with you, and your ideas can go into development. Academic courses relevant to the project : OOP, Math Courses. DBMS, DSA is an advantage but not required	2019-20-sem2
Symphony Fintech Solutions Pvt. Ltd. , Pune	Worked on designing of financial trading analytics and complex graphical rendering framework. Also worked on migration of order execution management system code base to .NET Core to make it cross platform. Tool used (Development tools - H/w, S/w) : C#, .NET, GDI+ Objectives of the project : To create a platform that graphically shows the market trends using various chart types. Also, I worked on designing of many features(tools & indicators) that would help the user to analyze the market trends. Major Learning Outcomes : OOP, .NET, Network programming Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is really good. You are given tasks for weekly sprints and a project manager is assigned to you who tracks the progress on daily basis. The company treats you just like their employees and also expects as much output from you. Academic courses relevant to the project : OOP, OS	2019-20-sem2
Synopsys India Pvt. Ltd. , Hyderabad		2018-19-sem2

Company	Experience	Year
Synopsys India Pvt. Ltd. , Hyderabad	Developing PDKs & iPDKs for various technology nodes. Developing and enabling various features for the PDKs. Verication and debugging of callback source codes. Tool used (Development tools - H/w, S/w) : Synopsys Custom Compiler, Tcl scripting, Shell scripting, Unix Objectives of the project : Main objective of the project was to develop and support the PDK without any bugs. Major Learning Outcomes : Better understanding of Unix system operation there by better utilization for effective file handling. Got to work using scripting languages which were totally new for me which are also important for any tool development. Through project I was able to understand and help in development of each of the devices of the library used in circuit design. Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment was encouraging. If we have the required skills for the job, we are always encouraged to do anything new. The team members were approachable and guided at every point needed. Academic courses relevant to the project : No Academic courses relavant to project. Knowledge on Tcl, Shell, Python scripting languages along with good scripting skills are the requirements for the job.	2018-19-sem2
Synopsys India Pvt. Ltd. , Hyderabad	I was working with DFT R&D TEAM, and worked on DFT based project including RTL Designing of it. Tool used (Development tools - H/w, S/w) : Vcs, Verdi, DC Compiler, Tetramax, Spyglass Objectives of the project : To get better dft designs Major Learning Outcomes : Industry based generic designing in verilog. Dft concepts was major part of learning. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is pretty cool here. All people over here are really helping. Academic courses relevant to the project : Vlsi design, Vlsi testing and testability, Cad for ic design	2018-19-sem2
Synopsys India Pvt. Ltd. , Hyderabad		2019-20-sem2

Company	Experience	Year
Synopsys India Pvt. Ltd. , Hyderabad	Work basically involve devolving the library for tool custom compiler. It's an EDA tool which need different libraries. We basically create those libraries, test them and provide it to the user. Tool used (Development tools - H/w, S/w) : Synopsys Custom Compiler(CC) Objectives of the project : Development of the iPDK Major Learning Outcomes : Learning of Python and Tcl. Also u will learn how to use CC Details of Papers/patents : - Brief Description of working environment, expectations from the company : Team members were very friendly. Since most of them are of our age bonding with them is easy. During my time i had average amount of work load but that can change. Work timing is from 105. Academic courses relevant to the project : Comp. Prog.	2019-20-sem2
TapChief , Bangalore		2019-20-sem2
TapChief , Bangalore	I developed 2 dashboard solutions, 2 Android Apps and at least 3 more small scale Google Sheet solutions to productise and increase efficiency of TapChief CSR. I also got to work on automating various report generation and standardising reports solution. Tool used (Development tools - H/w, S/w) : Google App Script, Node.js, Javascript, HTML, CSS, SQL, PostgreSQL Objectives of the project : Productising Macro and Micro Pods Major Learning Outcomes : - How to work in an professional work environment - Reporting work done per day to the manager - Better time estimation of work to be done Details of Papers/patents : None Brief Description of working environment, expectations from the company : The work environment is extremely proficient. The team constantly empathizes with you and make sure you are not facing any difficulties. They also try to keep you rejuvenated by organizing multiple POD and team outings (at least once a month). Overall I did not find any difficulty in getting along with peers. Academic courses relevant to the project : OOP, DSA (Not important that you have done both the courses, a basic understanding will also do)	2019-20-sem2

Company	Experience	Year
TAS Analytic Services, Bangalore	I have done my PS-II at Time Inc. India, Bangalore. Earlier it was known by the name of TAS Analytic Services. Not many of us know that it is fully owned subsidiary of Time Inc., one of the largest, most prestigious and influential names in media industry worldwide!It is home to 90 iconic brands like People, Sports Illustrated, Time, InStyle, Real Simple, Food & Wine, and Fortune, as well as more than 50 diverse brands in the United Kingdom such as Decanter, Horse & Hound and Wallpaper. Do I need to say more in its introduction?? We all must have heard and read about "Time person of the year" title given by this media company to one individual every year for his/her remarkable impact worldwide. One of the most coveted and prestigious feat!As an MBA student, I was part of CDM Team and was reporting to Director, Time Inc. India Retail Division. It was mostly an on-job training mainly focused on Operations aspect of Retail Division. The CDM (Centralized Distribution Management) Team was primarily responsible for two things: Analysis of sales trends of magazines to determine the number of copies that must go for print (Print order calculation) Effective distribution of copies to different locations in US. It was very critical to the company from revenue perspective. As it helped in Reducing the number of UnsoldsMinimizing the wastage thereby reducing associated costsIncreasing the overall efficiency of Supply Chain PS-II helped me in gaining business insights about media industry and the way it operates. During course of my training I got exposure on various tools and techniques apart from the usual ones like MS Excel. I was also working on third party tools like AIMS in order to extract data and to perform required analysis. As already mentioned that it was On-job training so like other employees I was also involved in Client deliverables and was assigned tasks on a weekly basis. During my tenure I got opportunity to attend Town hall with CFO and CEO of Time Inc. International. It was a good learning experience in terms of understanding the current market position of Company, areas of improvement, strategic steps taken by the senior management and road ahead. Finally I would say my overall experience at this station was nice which was well supplemented by the vibrant culture of the company and pleasant weather of the city!	2015-16-sem2

Company	Experience	Year
TAS Analytic Services, Bangalore	My PS-II station was at TIME Inc.'s Analytical Wing TAS Analytics stationed in Bangalore. I interned here at TIME Inc.'s Retail Wing under the guidance of its Director Ms. VarshaKhullar and my Team (Team Branding) under its two brightest mentors Rameez and Soumavo. My five and a half month tenure started with Induction by its different department Mentors trough which I became about the rich history TIME Inc. carries with itself and how it stand miles ahead of its nearest competitors. Currently it owns around 100+ titles worldwide and is on its way to mark its presence felt on the digital front. Although I wouldn't call my work here a project but regular deliverables since I need to meet them in timely manner. It included doing competitors analysis, their sales of titles, index and cover stories and compare them to our brands competing them in the same category. The skillset required here are the middle to advanced level of Microsoft Excel Skills and making presentation slides. Also one need to know a little bit of MySQL as data is mostly gathered from third party vendors. Pivot Tables, Charts are common attributes to do analysis on. My team has been a constant motivating factor for my performance and I would like to thank my team for believing in my capabilities and mentoring me in the right direction time to time. My overall experience was decent as the organization culture is vibrant, friendly and open but I would like to add a point that this PS Station is not meant for MBA Grads as BE guys would find it more relevant to work under the work profiles here.	2015-16-sem2
Tata Autocomp Systems Ltd. , Pune		2018-19-sem2
Tata Autocomp Systems Ltd. , Pune	The project was on data analysis. Analysis includes cost optimization of indirect consumable materials and outbound transportation. The project mainly comes under Central purchase and supply chain management. Tool used (Development tools - H/w, S/w) : Excel, SAP, tableau Objectives of the project : Cost optimization through data analysis Major Learning Outcomes : Data analysis and spend analysis helps in getting an idea to what things are giving profit and to whom the contract should be awarded so that the organization gets the profit. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Total Quality management and realibility	2018-19-sem2

Company	Experience	Year
Tata Chemical Innovation Center , Pune		2018-19-sem2
Tata Chemical Innovation Center , Pune	Components of FOS were successfully purified and characterized. A standard operating Procedure for the same was made and recorded for future use. Yield of 97% and above was achieved in the same and this proved to be very economical compared to purchasing individual standards. The components GF2, GF3 & GF4 were characterised using techniques like HPLC, FTIR and Mass spectroscopy and it showed excellent match in terms of purity. Thermal studies showed promising results as well. The components did not show much changes in its properties while subjected to various moisture contents. They maintained their stability. Scans done using its mixtures with sucrose showed similarities of the behaviors of FOS and its components. However, after a particular ratio, it deviates, thus indicating that up to a point, there is a possibility that it can be used as replacement to common sugar (sucrose) Tool used (Development tools - H/w, S/w) : Instruments: Semi Preparative High Performance Liquid Chromatography (HPLC) Rotary Vacuum Evaporator & Eppendorf Concentrator Differential scanning calorimetry (DSC) Thermogravimetric analysis (TGA) Fourier-transform infrared spectro Objectives of the project : To obtain pure components of FOS by semi preparative HPLC, To characterize the pure fractions, To study the properties of purified FOS components and their mixtures & To predict various applications for the studied compounds Major Learning Outcomes : Principles and Usage of the various instruments. Analysis of various plots and data obtained from these instruments. Applications of FOS and its components Details of Papers/patents : Nil Brief Description of working environment, expectations from the company : Working environment was good. The scientists are all helpful and friendly. It was more of lab work and chemistry. Academic courses relevant to the project : Chemistry Lab	2018-19-sem2
Tata Chemical Innovation Center , Pune		2019-20-sem2

Company	Experience	Year
Tata Chemical Innovation Center , Pune	My Project was Synthesis of Silica Anisotropic Nanoparticles. Started with study of research papers related to silica synthesis continued with carrying out the synthesis reaction. Various parameters like Temperature, pH, Reaction time which can affect the reaction were adjusted. Also template and precursor to be used and also their amount was decided and various reactions were carried out. Analysis was done for all the Silica Samples. Various Characterizing techniques including FTIR(Fourier Transform infrared microscopy), FESEM(Field Emmision Scanning Electron Microscopy), TEM (Transmission Electron Microscopy), XRD(X-ray Diffraction), DOA(Dioctyl Adepate), BET Surface area, Particle size analyzer, Nanozetasizer were used and all samples were analyzed. Tool used (Development tools - H/w, S/w) : Techniques: FTIR, FE-SEM, TEM, TGA, Nanozetasizer, Malvern Mastersizer, XRD, DOA. Tools: Peristaltic pump, pH meter, Hot plate, Agitator, Beakers, Measuring cylinders, crucibles. Objectives of the project : Objective of the project is to synthesize silica anisotropic nanoparticles by using different templates, precursors, etc. and to characterize these silica samples by using different techniques. Major Learning Outcomes : Following things are learnt: 1. To carry out synthesis reaction on a bigger scale using stirrer and peristaltic pumps. 2. Use various characterization techniques: FTIR, FESEM, TEM, TGA, XRD, DOA, BET Surface area, Particle size analyzer, Nanozetasizer. 3. Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment at Tata Chemicals is very good. Everyone is very helping and very friendly to talk to. There are so many techniques to learn here and we are very free to work on our own ideas. Office location is very beautiful and working environment is stress-free. Apart from work, there is also celebration of festivals, ethics week, etc. Academic courses relevant to the project : Material Science, Engineering Chemistry, KRD.	2019-20-sem2

Company	Experience	Year
Tata Chemical Innovation Center , Pune	Sugar is the most common sweetener in our households. It is a major component of our diet. But its high caloric value and glycaemic index makes it inadvisable for consumption for Diabetics, Sportsperson or health conscious people. FOS on the other hand has no such shortcomings and can be safely consumed by all of the groups mentioned above. FOS is a larger molecule when compared to sugar and has a higher number of sites available for H-Bonding. This higher instance of H-bonding may inhibit the retrogradation of starch in the bakery matrix by slowing down the transfer of moisture inside the matrix. FTIR and XRD were used to study the structural changes of Starch in bakery. The experiments were conducted on regular intervals of 3 days for 30 days. The change in FTIR and XRD indicate that the sugar cookies show a change in structure over 30 days. More experiments are needed to confirm the hypothesis. Tool used (Development tools - H/w, S/w) : XRD,FTIR,DSC, multiple analytical machines, Highscore Plus, Origin Pro, OPUS, STARe Software, Excel etc Objectives of the project : To Study the Interaction of FOS (fructo-oligosaccharides) with Bakery Product matrix. Major Learning Outcomes : 1.Structure and changes in the bakery matrix over time. (knowledge) 2.Operating various analytical equipment. 3.Research methodology. Details of Papers/patents : Brief Description of working environment, expectations from the company : Good place to work. People are ready to help and teach you stuff. No shortage of raw material or lack of equipment to conduct experiments. Projects undertaken are innovative and completely new. No recycling of old stuff. Academic courses relevant to the project : Engineering Chemistry, Basic Chemistry, Biology, Materials science.	2019-20-sem2
Tata Consultancy Services , Bangalore		2019-20-sem2

Company	Experience	Year
Tata Consultancy Services , Bangalore	My work was to build a smart connected care solution. This smart connected health solution aims at tracking the current status of the person in terms of heart-rate, calories burnt, current location, etc. This project involves a Fitbit watch which constantly keeps track of the person's personal details as mentioned above. After that, the data is fetched from the fit-bit watch to device cloud and then on to our machine using O-auth 2.0. For extracting data we need to communicate to Fitbit using their Fitbit API's(application programme interface) which are pre-defined. On successful communication, we get access to the data which we need to store in a database. Therefore we create a database and store the data. Also to get data updated after the fixed interval we set ajax call in such a manner that data gets auto-updated on an hourly basis. Once this is done we display the data in a tabular form to the end-user after averaging each day,s data in a weekly report format. In this way, we aim to connect your health from episodic care to continuous care. Tool used (Development tools - H/w, S/w) : Python, Django, HTML, CSS, JavaScript, jQuery, Ajax Objectives of the project : To make a web portal to display the weekly report from the data recievedthrough smart device through data analytics the device to the portal developed for further analysis using oauth. Major Learning Outcomes : Python, Django, HTML, CSS, JavaScript, jQuery, Ajax Details of Papers/patents : None Brief Description of working environment, expectations from the company : The environment was quite good. Team members were very helpful. In a nutshell, you will have a lot of time to explore and learn new things. Academic courses relevant to the project : None	2019-20-sem2
Tata Digital Health, Bangalore	Worked on Web development and shell scripting. Tools used (Development tools - H/w, S/w): Eclipse, Mirth connect, Struts, JSP and pgAdmin. Objectives of the project: To modify the existing OrgAdmin web page. Outcomes of the project: The web page was ready with 3 additional tabs and few modifications in the existing pages. Major Learning Outcomes: JSP, Struts, PostgreSQL. Brief Description of working environment, expectations from the company: The co workers are really supportive and you get to learn a lot about actual development process in a startup.	2016-17-sem2

Company	Experience	Year
Tata Digital Health, Bangalore	My work was on datawarehousing. I had to set up a warehouse which crons itself every day and fetches the data of all the clinics, so that the analytics team can do their analysis. Along with this, I had to generate reports for the business team. These reports had to be automated and written into a Google spreadsheets. Tools used (Development tools - H/w, S/w): Java, Hibernate, Postgres, Google spreadsheets API. Objectives of the project: To build a Data Warehouse. Outcomes of the project: Built the warehouse and also automated the report generation. Major Learning Outcomes: Java, SQL Brief Description of working environment, expectations from the company: It's a startup environment so whatever we work on has an impact. The work is good, and the manager I had Mr. Gaurav Pathak, was a knowledgeable person. It was a nice experience.	2016-17-sem2
Tata Digital Health, Bangalore	I Designed a SSO system for their applications from scratch which would act as central login system for all the applications and all the data would be stored here. Tools used (Development tools - H/w, S/w): Spring boot, Spring JDBC, JBoss, OpenLDAP, postgres, REST services Objectives of the project: To develop Single Sign on (SSO) system for the existing applications. Outcomes of the project: By the end of the PS2, we had a working SSO platform and we had done its integration with Blog and Consumer application. Major Learning Outcomes: Apart from the immense technical learning, I also got to know about the business side of the product, how all the teams coordinate on multiple projects to meet the demands. Brief Description of working environment, expectations from the company: The people in the company were very jovial and they helped me out on numerous occasions, be it technical or any trivial thing. Whenever I was stuck somewhere in the project, they guided me in the right direction and I always gained some knowledge whenever I interacted with them.	2016-17-sem2
Tata Motors Ltd, Jamshedpur	1) Rectifying the tool designs in accordance to the industry prescribed rules and regulations 2) Establishing a product lifecycle management system for designs of Signa and Prima trucks' tools and fixtures 3) Database management of computer aided designs using SEIMENS Teamcenter Tools used (Development tools - H/w, S/w): CATIA V5, SEIMENS TEAMCENTER and Product Lifecycle Management. Objectives of the project: 1) Identification of various die components 2) Step by step correction of design errors 3) Implementing an error proof product lifecycle management system for the	2016-17-sem2

Company	Experience	Year
	designs 4) Capturing all mistakes in a presentation and explaining it to senior employees. Outcomes of the project: 1) Documentation of errors in the manufactured cab of TATA Signa along with the worker who was responsible for its manufacturing. 2) Preparation of Reference Manual for PLM Establishment 3) Letter to Marketing Head of TATA Motors CVBU for participation in DAKAR rally held in Morocco to improve the brand image in the international market 4) Comprehensive marketing report sent to the Sales Head Mr. Ashesh Dhar for setting up distribution networks and initiate marketing campaigns in Asansol, Kalimpong and Jhargam 5) Detailed report on the distinctions between sketch and actual prototype of TATA Tigor have been submitted to the design head. Major Learning Outcomes: Data Collected: -1) List of parts in a die 2) Nomenclature rules 3) Positioning of parts in the die 4) Prevalent PLM establishment techniques 5) Categories of design errors corresponding to each part Problem Solving Techniques: - 1) Established a set of guidelines for systematic design correction- This was used as a starting source of information 2) CATIA designing 3) SEIMENS Teamcenter trouble shooting techniques 4) Unsolved problems were addressed to senior designers and recommendations were obtained. Brief Description of working environment, expectations from the company: Horrible working environment!! Not in the company but in the hostel provided by them. Double sharing rooms are given and basic vegetarian food is of extremely poor quality (multiple times worse than Pilani Campus mess food). Transportation services during emergency times are nil. I could not find an auto to go to hospital at 10 pm when I was bitten by a dog so I had to go walking. The hostel does not even has a proper drinking water purifying system. There is one cheap-age old aqua guard system which is not of much use. I had to purchase mineral water bottles. Inmates drink, smoke, take drugs and do other unethical activities openly in public making life even worse for professionals who want to make something useful out of their lives. Once again, plant is amazing but living conditions are not. Company has a bright future but its employees do not, because first-major share of earnings goes into charity and only the leftover money is for employees. Warning: - Do not join if you are a vegetarian or a decent career oriented person with straight habits.	

Company	Experience	Year
Tata Motors Ltd, Jamshedpur	Study of productionsation of Bs-IV vehicle, various stages, testing procedures etc. Objectives of the project: Study the productionsation of BS-IV VEHICLE. Outcomes of the project: Productionisation of vehicle without any problems. Major Learning Outcomes: Working process of introducing new model for productionisation, process flow diagram preparation, change matrix, various testing procedures. Brief Description of working environment, expectations from the company: Best working environment.	2016-17-sem2
Tata Motors Ltd, Jamshedpur	Implemented dependency resolution and scheduling algorithms for render farm Flask app for managing schema migration of studio products Designed and implemented cleanup policies and algorithms for deprecating products Reworked UI/UX of a key component for Tau's in-house production management software Implemented bots for schema migration and render farm management Developed a suite of productivity tools for studio management Designed and implemented a proof-of-concept for a node-based visual scripting engine for studio support tasks Engineered an alternative large file transfer solution using GDrive as backend Designed a set of caching policies for production tracking data Was jointly involved in setting up VFX pipeline in Los Angeles studio. Tools used (Development tools - H/w, S/w): Maya, Nuke, Houdini, Syntheyes, Mari, Photoshop, 3DEqualizer, Arnold. Objectives of the project: Develop and support all technology relating to VFX production. This spans multiple areas - computer graphics software, graph algorithms, render farm management, Linux toolchain, database systems, web services, software architecture, data security, UI/UX design etc. Come up with quick, working solutions to production problems while respecting good coding practices and design principles. Outcomes of the project: 1. Developed a large suite of productivity tools at all levels (management, systems, pipeline, artists), being used live in production. 2. Offered and implemented practical solutions to key technological systems - cleanup and archival, transfers, notifications, farm management etc. 3. Considerable improvement in in-house production tracking software - both back-end and front-end. Major Learning Outcomes: Stronger understanding of the application of graph algorithms, design patterns and software architecture. Brief Description of working environment, expectations from the company: Even as interns we are thrown straight under the production bus. All code we write is meant for live	2016-17-sem2

Company	Experience	Year
	production. We get a huge say in the development of the pipeline, and our solutions to improve it have been taken up.Development forces us everyday to go beyond our comfort zones and explore a field we've never tried before. We've written web services, designed and implemented database schemas, dabbled in creating good UI/UX for artists, applied our classroom graph algorithms to production problems, architected an event-based notification system, managed a render farm and a whole lot more.We've learnt a lot during the span of our PS program. We've learnt the great deal of effort and hardwork artists put in to make a VFX heavy movie come to life. We've seen first hand the enormous technological resources which are required to support a big budget production, and are proud to have played a major role in its development.The company expects us to contribute as much as a regular employee and treats us as such. We are given a lot of freedom to explore interesting solutions and ideas to bring to the table.	
Tata Motors Ltd. , Pune		2018-19-sem2
Tata Motors Ltd. , Pune	Time studies of manufacturing processes of Tipper, trailer and RMC mixers Tool used (Development tools - H/w, S/w) : Excel Objectives of the project : Improving the productivity of the fabrication Major Learning Outcomes : Corporate exposure, Lean manufacturing Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Production techniques	2018-19-sem2
Tata Motors Ltd. , Sanand		2019-20-sem2

Company	Experience	Year
Tata Motors Ltd. , Sanand	Productionalization of two models Tiago and Tigor i.e .Mid cycle enhancement.The product goes through different stages or shops like press shop,weld shop,paint shop,TCF shop.Production of product is divided into batches like alpha ,beta 2.0,beta 3.0. During production batches the problem faced were corrected one by one. Tool used (Development tools - H/w, S/w) : Excel,SAP. Objectives of the project : Productionalization of two model Tata Tiago and Tigor Major Learning Outcomes : Learned about product journey ,till it's completion and problems faced and actions taken. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment was like other corporate job sector. Academic courses relevant to the project : Kinematics of machines,fluid mechanics, Production techniques 1 and 2 etc	2019-20-sem2
Tata Technologies , Pune	Student	2018-19-sem2
Tata Technologies , Pune	My work here deals with calculating the material properties of metal sandwich composites both analytically and using virtual simulations . Tool used (Development tools - H/w, S/w) : Abaqus,Hypermesh, Microsoft Excel, Nastran Objectives of the project : Estimation of engineering constants of metal sandwich composites using different methods. Major Learning Outcomes : . Deep learning on composites . Determined the behaviour of metal sandwich composites and its parametric dependency. . Estimation of engineering constants Details of Papers/patents : Brief Description of working environment, expectations from the company : Work environment is good , Everyone is supportive .A very good place to learn if you are pursuing design engineering. Academic courses relevant to the project : Composites,Practical courses on mechanical softwares	2018-19-sem2
Taxilla Info Pvt. Ltd. , Hyderabad		2018-19-sem2
Taxilla Info Pvt. Ltd. , Hyderabad	Building an application for conversion of data in one format to another Tool used (Development tools - H/w, S/w) : Java Objectives of the project : Major Learning Outcomes : Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : OOPS	2018-19-sem2

Company	Experience	Year
Techture Structures (IT) , Nagpur		2019-20-sem2
Techture Structures (IT) , Nagpur	development of application that runs on Revit software and is a part of cloud based application named plan BIM. In the development of this project I have worked on everything except for database management. Tool used (Development tools - H/w, S/w) : Visual Studio, Postman, Autodesk Reivt Objectives of the project : To create a plugin(addin) that runs on revit software and is extenion of a cloud application named planBIM Major Learning Outcomes : .NET Framework, MVVM Model, XAML, WPF, Threading, Hashing etc. Details of Papers/patents : None Brief Description of working environment, expectations from the company : The working environment is decent, employees are also helping in nature. As holidays and leaves are strictly managed, you should expect more workload and less free time. The project that is in progress is web based, mobile based and software interactive. So you have to work on any of these fields or database management that requires postgreSQL. Academic courses relevant to the project : Object Oriented Programming, C Programming, Operating System, Database Management System, Data Structure and Algorithm, etc.	2019-20-sem2
Techture Structures Pvt Ltd. , Nagpur		2018-19-sem2
Techture Structures Pvt Ltd. , Nagpur	I was responsible for design and development of various types of structures including R.C.C and complex Steel structures. Including the designing, I was also responsible for coordinating with the client , generating drawings and relevant structural reports. Tool used (Development tools - H/w, S/w) : STAAD Pro, ETABS Objectives of the project : Design and detailing of various structures Major Learning Outcomes : I was able to learn how to design any structure, provide the design detailing to the client in an appropriate manner. Details of Papers/patents : Brief Description of working environment, expectations from the company : The company offers a very friendly atmosphere as far as work is concerned, the learning atmosphere is nice. One can see continuous progress in the company and people tirelessly working on projects. Academic courses relevant to the project : Structural Analysis, Steel Structures Design, Design of Reinforced Concrete Structures	2018-19-sem2

Company	Experience	Year
Tega Industries SEZ Ltd , Dahej		2018-19-sem2

Company	Experience	Year
Tega Industries SEZ Ltd , Dahej	The main goal of industries in general is to improve their productivity which is possible by improving productivity in individual departments. The productivity of any department depends on various factors such as Layout, working procedure, Inventory/Product flow management, workforce management etc. In the projects we talk about improving productivity in the Mould department and Blasting department of Tega Industry by redefining layout, managing Inventory, managing Product flow, Vertical Rack design for material placement, conducting Process flow analysis and Time study, defining Standardized Operating Procedure (SOP) wherever applicable. It provides comprehensive view of Mould department and Blasting department working which can help the management decide the further course of actions to be taken. Tool used (Development tools - H/w, S/w) : Solidworks (Trial version), Autocad (by company) Objectives of the project : The objective of the project is to increase the productivity of the concerned departments. The objectives involve reduction of man-material movement, Area identification in layout design, Easy Reach-ability of parts in the concerned department, find the non-value added activities and suggest solutions to reduce them, vertical racking system design to save shop floor space. Major Learning Outcomes : The project helped me understand about the common problems faced by the industries, The method by which the productivity can be improved by process flow analysis (time study). Understood on how Standardizing the man-material movement can improve the productivity. A deep understanding of how the steel structures can be used in making Vertical racking systems(Industrial Racks) Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment is supportive and all the employees of the organization are ready to help you when needed. The facilities while working depends on the department. The accommodation and food facilities provided are good. The company expects results that are out of the box and and which can be implemented. The detailed study is very important. Basic knowledge about production process is required for the projects. Academic courses relevant to the project : Production Planning and control, Toyota Production system, Flexible manufacturing systems, Strength of Materials, Steel structures	2018-19-sem2

Company	Experience	Year
Tega Industries SEZ Ltd , Dahej	Brief write-up on PS-II station : Students should have done courses on Quality Management, Industrial Engineering. Texmaco : Students should have interest in Material Science, Mechanics of Solids.	2019-20-sem2
Tega Industries SEZ Ltd , Dahej	Our work is to observe and try to solve the problems faced by various departments involved in production. The work I have done is improvement of design (shrinkage analysis of rubber when reinforced with steel or casting), and also design of rack for better utilisation of storage space and movement. Tool used (Development tools - H/w, S/w) : AutoCAD, Fusion 360. Objectives of the project : To make life easier for the people involved in production and achieve maximum efficiency. Major Learning Outcomes : How work is done in industry, the planning and co-ordination required for smooth going of production process. Various machinery used in rubber industry. Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment is good enough and the company expects us to deliver the goods in less time and also do more work Academic courses relevant to the project : Mechanics of Solids, Production Techniques.	2019-20-sem2
Tega Industries SEZ Ltd , Dahej	Mentor Mentor comments: The students have applied DMAIC principle in the reduction of non-value added activities, reduction in wastage and made blank maunufacturing process less manual dependent. The student has done a commendable job in repairing a jammed roller at the end of feeding conveyor which was causing frequent jams in the process. The student has designed proper jigs and fixtures to ease the loading and unloading process. Did time study of 14 different lifter bars and made a process study with the aim of reducing the cycle time. The students are very hardworking and collected data from the plant for analysis and decision-making.	2019-20-sem2
Tejas Networks , Bangalore		2018-19-sem2

Company	Experience	Year
Tejas Networks , Bangalore	Development of Wifi Access point Tool used (Development tools - H/w, S/w) : Coova-Chilli Objectives of the project : To setup wifi access point along with the environment Major Learning Outcomes : To develop any environment according to the needs of the device Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : MTN	2018-19-sem2
TESCO Hindustan Service Centre , Bangalore		2018-19-sem2
TESCO Hindustan Service Centre , Bangalore	Analysis of impact on sales due to reduction of minimum basket size for "Click and Collect". Helped company in analyzing and comparing our slot prices by our competitors Created a core stats file that accommodates all the major financial performance data like sales, orders, etc. and analysed it through graphs and important insights Analysis of sales impact due to bagless trial in control set of stores and then estimated it for entire estate Updated market share for all the retailers in business and predicted their growth Tool used (Development tools - H/w, S/w) : SQL, MS Excel, MS Powerpoint Objectives of the project : Data Analysis for ongoing projects in the company Major Learning Outcomes : Project Planning and time managment, SQL, Analytcal skills Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : N/A	2018-19-sem2
TESCO Hindustan Service Centre , Bangalore	Forecasting, done on monthly, weekly and daily basis for expecting the number of calls . Then using BI tools for displaying the analysis. Tool used (Development tools - H/w, S/w) : Excel, Microstrategy Objectives of the project : Predicting number of calls on per week basis Major Learning Outcomes : Forecasting methods Details of Papers/patents : Brief Description of working environment, expectations from the company : It's relaxed. Academic courses relevant to the project : Probability and Statistics	2018-19-sem2
TESCO Hindustan Service Centre , Bangalore		2019-20-sem2

Company	Experience	Year
TESCO Hindustan Service Centre , Bangalore	I was in Store & Channel insights team at Tesco, which is one of the best teams in analytics division here. Our work involves solving business problems faced by Tesco in UK & rest of the globe with the help of data & strategy. My major projects involved producing a high impact periodic report for the store managers in UK to build the gap between them & the business. I automated the process of sending the health card across using VBA. My other project involved analysing the shopping trend of Tesco colleagues & recommending strategies for them to increase the stickiness. Tool used (Development tools - H/w, S/w) : Excel, VBA, Tableau, SQL, Hive, R Objectives of the project : Building automated dashboard & reports for checking performance of each store (2666) Major Learning Outcomes : 1. Stakeholder management 2. SQL, VBA 3. Business problem solving Details of Papers/patents : - Brief Description of working environment, expectations from the company : The work culture is very nice over here. A lot more of ownership than you can expect from a big company like Tesco. The campus is one of the best campuses in Bangalore, which keeps you constantly motivated. PPO chances are good if you are passionate about your work & take up lead here, projects are mostly related to analytics & not much about data science. Academic courses relevant to the project : I did a small project in supply chain which kind of helped me kickstart with retail domain.	2019-20-sem2
TESCO Hindustan Service Centre , Bangalore	Tesco is a retail giant based primarily out of Europe. In the course of its business, massive amounts of data are generated from customer activity. Upon analyzing this data, a number of useful metrics tracking the company's performance across sectors and functions can be created. Over the course of my project, I built and automated reports measuring critical KPIs week-on-week. Tool used (Development tools - H/w, S/w) : SQL, Excel, Alteryx Objectives of the project : Building and automating One Pager reports Major Learning Outcomes : - Knowledge of SQL, Advanced Excel tools - Better understanding of retail operations Details of Papers/patents : - Brief Description of working environment, expectations from the company : Working environment was generally relaxed. Interns are assigned mentors to guide their progress and help complete their projects. Nature of work varies significantly between teams. Academic courses relevant to the project : -	2019-20-sem2

Company	Experience	Year
TESCO Hindustan Service Centre , Bangalore	Mentor Mentor comments: The student is given a research project. The different phases of the project include determining the chemistry of the given sample using spectrometer, learning about the various heat treatment processes mainly Normalizing, Quenching & Tempering, working principle of V-Notch Charpy Impact Test, studying the microstructure of the given sample.The data collected refers to the effect of heat treatment on the properties of a material mainly hardness, tensile strength, elongation, etc. Different samples of varying chemical composition were subjected to different heat treatment process(es) and mechanical testing of the samples was done after that. The data was analysed to compare the expected values to actual values. The student need to go through various reseach papers and do the literature survey.	2019-20-sem2

Company	Experience	Year
TESCO Hindustan Service Centre, Bangalore	Tesco Hindustan Service Center, Bengaluru has been a great place to learn and grow. Despite being one of the top retailers in the world, they have kept their processes very simple and easy to understand. The work culture is also very friendly. The team members are always ready to help, whether it's a small issue such assuitable format for a PPT or a major issue regarding some project. Even the most senior people are very helpful when it comes to helping their juniors. I have worked here with the Dotcom Insights team on the Grocery Home Shopping (GHS) business vertical. In my first month or so, I worked on the various business reports to gain a better understanding of the Tesco online business. Once I became thorough with all of the reporting stuff, I was assigned one major project which involved a complete analysis of the impacts due to increased variable delivery charges in the U.K. And I got a chance to work under the direct mentorship of a Senior Analyst sitting out of the U.K. office which proved to be quite helpful for me to improve my communication and negotiation skills. While working on the daily and weekly reports in my initial phase, I learnt tools like Teradata SQL Assistant and ART. When working on the other project, Project Boomerang, I got to work a lot on Hadoop (Impala). We also had training on some other useful Analytics tools such as R, Alteryx andSqoop. Then I also worked on automation of one of the most important Tesco trade dashboards. I took a course on Tableau for this project and then applied my learnings to make the process automated. The overall experience at Tesco has been very good. It sharpened not only my analytical skills but also my soft skills. I got a chance to directly communicate with the corresponding U.K. stakeholders who have an in-depth knowledge of the business. As a result of spending over 5 months at Tesco, I feel that now I'm prepared enough for any kind of professional experience coming my way. The PS 2 experience has helped me acquire the inter-personal skills and soft skills associated with corporate life.	2015-16-sem2
Texas Instruments (I) Pvt. Ltd - Systems , Bangalore		2018-19-sem2

Company	Experience	Year
Texas Instruments (I) Pvt. Ltd - Systems , Bangalore	The project involves getting accustomed to Eagle Test Software which is vital to effectively test the specifications. Various Design for Test concepts are discussed in detail. Then the project involves adapting existing code to cover specifications of a new device variant. The effectiveness of the test solution is measured using various statistical parameters. Tool used (Development tools - H/w, S/w) : EagleVision, Test Stand, Labview 2016, Thermostream, Keysight DC Power supply, Matlab, Mircosoft Office 2010(Outlook,Excel, PowerPoint, Word, OneNote), word, Allegro, Oscilloscope, Multimeter, Wires, Mother Board/Daughter Card, Current Probe, Motor Driver Objectives of the project : To Release to the market of the Spin Device Major Learning Outcomes : Process of RTM, and all the guardbanding and the analysis of variance of the test procedure, Silicon Debug Details of Papers/patents : None Brief Description of working environment, expectations from the company : The team is very good, everyone is approachable, there is always a helping hand on the other side. The company will provide all forms of learning help, but will also require you to figure out stuff on your own, thus helping you mature as a budding engineer in the world. The project encourages you to challenge your limits and overcome problems. This provides a holistic development to the individual. But being an intern, and if you are required to use highly sought after hardware equipment, you will only gain access after hours/weekends. Academic courses relevant to the project : DD, MUE, ADVD, Analog Electronics, CP, EM, MATH 4, Practice School 1.	2018-19-sem2

Company	Experience	Year
Think and learn , Bangalore	Mentor Mentor comments: Three projects A. Data analysis and Game designing B. Web portal for two internal projects. One has gone live and the other will be launched soon. C. Applying machine learning model for task prediction and text tagging. 1. Interactions with the students : Students are well up to date with their project details, timelines etc and are focused towards objectives in their work in discussions. 2. Highlights of major achievements: Major contribution in creating new games 3. Outstanding student characteristics: Ability to learn new things fast, flexibility, good Technical Skills, disciplined. 4. Specific characteristics that you are looking for in the interns: Open to learning Brief write-up on PS-II station : Very friendly working environment. Tools used - Python or Excel Objectives - To increase average user active time on the app and to remove flaws from the app. Soft skills - presentation and creative writing skills.	2019-20-sem2
Think and learn , Bangalore	Development of two web portals viz Employee utility portal and Recruitment portal. Initially, both the portals were basically a combination of google sheets. I used PHP for the backend of first project. It was developed on Lampp stack. The recruitment website was developed using Node.js framework Express.js. I also used OAuth and Calendar API in this website. The database of both the project were designed and developed using MySQL. Tool used (Development tools - H/w, S/w) : PHPMyAdmin, Zing Charts, Codeigniter 3.2, Express.js Objectives of the project : To develop employee utility portal and recruitment website. Major Learning Outcomes : JavaScript, JQuery, AJAX, PHP, PHP CodeIgniter, Node.js, Express.js Details of Papers/patents : NA Brief Description of working environment, expectations from the company : The working environment is friendly and supportive. It was a pleasant experience. Academic courses relevant to the project : Object Oriented Programming	2019-20-sem2

Company	Experience	Year
Think and Learn Pvt. Ltd. Bangalore	This was the first time this PS station was offered. The company is India's biggest technology based education company. It offers learning programs for classes 6-12, JEE, AIPMT, CAT, IAS, GRE and GMAT. It also has an android and iOS app called "BYJU's - The learning app". Our work was primarily focused on this mobile application. It was a startup-like atmosphere throughout the duration of our internship. Basic programming knowledge in Java and Python sufficed, along with some knowledge about Android Development There was not much clear definition about our work, we were put on varied assignments, as and when need arose. This might not be to most people's liking but I personally liked the challenge of working on a multitude of things in the span of slightly less than 6 months. The first week we were put to manually test their android app. Later we were put on the QA team to work on automating the testing of their app. This task continued for the entire duration of our internship as the app was relatively big with many activities and functions that required testing. We were also given the task of automating particular software that they used for video compression. This task was neatly accomplished in Python and meant that they could now encode videos in batches overnight instead of needing to manually execute the software for every new video. Thus we were able to directly impact the way they did their work which was very satisfying. We were also given work to write code conforming to new APIs of particular software that they were using which monitored their app activity. We played a crucial role in the automation script that fetches test cases from the cloud, and can execute them simultaneously on Android and iOS devices. We were also taken for a team outing once in February to Mango Mist Resorts in Harapanahalli. It was a day well spent playing games and adventure activities. In conclusion I feel that though enjoyable, the work proceeded a bit haphazardly; with proper prior planning about the work allotment for future interns this PS station can prove to be immensely gratifying.	2015-16-sem2
Thornton Tomasetti , Mumbai		2018-19-sem2

Company	Experience	Year
Thornton Tomasetti , Mumbai	The major work during PS was reviewing submittals or shop drawings which is considered to be the final step before the fabrication phase thus playing a pivotal role in any project. Besides, there were some in hand experience with softwares like RAM Concept, SAFE and REVIT which aid in understanding the structural intricacies further. Tool used (Development tools - H/w, S/w) : BlueBeam, RAM Concept, SAFE, REVIT Objectives of the project : Projects assigned are mostly multifaceted. Major Learning Outcomes : Working in close association with the top personnel in the industry helps bridge the theoretical knowledge and the application of it in the respective field. Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment in Thornton Tomasetti is the best you can ask for in a MNC considering the time flexibility and the ease with which you can approach the top management for any kind of help whatsoever. Academic courses relevant to the project : Advanced Steel Structures, Earthquake Engineering, Design of Multi-storey Buildings, Advanced Concrete Structures.	2018-19-sem2
Thorogood , Bangalore		2018-19-sem2

Company	Experience	Year
Thorogood , Bangalore	Tool used (Development tools - H/w, S/w) : SQL, SSIS, ADF, Tableau, Power BI, DAX, Salesforce Objectives of the project : The first project is aimed at streamlining collection and analysis of point of sales data for a leading Multinational Corporation dealing in Tobacco products. The second project aims to partially migrate a huge Unilever project into Azure Data Lake for easy accessibility. The third project aims to research and create audio- visual content for Azure Data Factory that can be used by other business analysts to understand the technology and get required practice for the same before applying it in the project. The fourth and the main project aims to develop a solution to integrate two applications currently being used for two different purposes in Thorogood Major Learning Outcomes : Written communication Creating professional presentations Understanding Business Side of things Learning various Front end and Back end Tools Details of Papers/patents : Brief Description of working environment, expectations from the company : The company has an amazing policy of work-life balance. The timings include 8 hrs of daily work and 1 hr for lunch. One of Thorogood's high points is an amazing 2 month induction cycle where they get you familiarized with various back-end and front-end tools. During the same time, you are given a case study to get hands on practice on the business needs in future projects that you would be a part of. The projects vary from being client-based to internal, involving back-end tools like SQL, ETL tools like SSIS/ ADF and front-end tools like Tableau/Power BI. Some of the projects also involve basic coding. Academic courses relevant to the project : Principles of Management, Technical Report Writing	2018-19-sem2

Company	Experience	Year
Thorogood , Bangalore	Tool used (Development tools - H/w, S/w) : SQL Server, SSIS, SSMS, Tableau, QlikView, Power BI, Power Pivots, JAVA, Powershell, Salesforce Objectives of the project : To build a complete BI system Major Learning Outcomes : Technical Consultancy Details of Papers/patents : Brief Description of working environment, expectations from the company : It's a business intelligence and Analytics company. The average project is cleaning raw data and building dashboards out if it for the clients. There are new upcoming projects related to ML, but mostly we're trained on SQL and the like. In terms of work culture, I feel it's excellent, much better than what other companies might have. The average age of employees is 25, so it's amazing. Plus the work hours are great, 9-6 or 10-7, and nobody expects you to stay more than that. Academic courses relevant to the project : DBMS	2018-19-sem2
Thorogood , Bangalore		2019-20-sem2

Company	Experience	Year
Thorogood , Bangalore	My profile during the internship was that of a Business Intelligence and Analytics Consultant. For the first two months of PS, we were enrolled in a training program by the company which involved being trained on various business intelligence tools in company domain. There was a case study given to us as an assignment to test our understanding out of the whole training program. I was then enrolled in an internal project of the company. I had to catch up with different web development tools as it involved designing an application for the company which will be used by all the consultants worldwide Tool used (Development tools - H/w, S/w) : SSMS, SSIS, Microsoft ADF, Azure DataBricks, Angular, DjangoRF Objectives of the project : 1. To design an application for all the consultants worldwide which would enable them to enter the work they did on a particular day as well as the expenses they incurred for a particular task. This application will keep track of all these things and will Major Learning Outcomes : Data Analytics tools, Web development tools, Communication Skills Details of Papers/patents : Brief Description of working environment, expectations from the company : One of best working environments one could ever ask for. People are really supportive and motivate you to try new things. You don't get treated differently because you are an intern. Your opinions will definitely be considered if they are indeed helpful. Academic courses relevant to the project : Data Mining, Data Analytics, Object oriented Programming, Data Science	2019-20-sem2
Tolexo Online Pvt Ltd, Noida	I have been working here as a Management Trainee in Marketing Department. Past five months, have been an amazing learning opportunity for me. I was introduced to different aspects of online marketing that includes Search Engine Marketing, Email Marketing, SMS marketing, Mobile Marketing as well as other related concepts and was provided with a platform to implement those concepts. Major chunk of my project involved strategically creating campaigns to improve the productivity of different marketing campaigns. For the implementation of the project, I had to learn various concepts like ROI Analysis, Bid and Campaign Management, Advanced Keyword Research, Google Account Setup, Search Engine Marketing, SMS marketing, R Tool and basic knowledge of shared libraries and different categorization of audiences. Apart from this I also learnt various aspects of mobile marketing channels. In addition to this I also learnt R to improve my analytical skills. Leveraging my experience as a	2015-16-sem2

Company	Experience	Year
	Application Programmer I have also assisted my tech team to develop an ERP software for my various corporate clients with a detailed analysis and design of the same. These tasks helped me become familiar with basics of different Google marketing channels. It also introduced me to various categorizations of campaigns and their respective remarketing lists. Apart from learning various online marketing related concepts, I have also realized how working in industry is different from academic projects. In industry there is a lot of emphasis on optimizing the metrics and getting results from the same. Also, the programs are subjected to large number of stress tests so as to make them as improve the customer experience with a measurable return on investment. Moreover, even while creating and making the changes in the campaigns, a lot of emphasis is laid on controlling the cost per order with an increase in relevant web traffic month on month. These kinds of practices are very essential to industries. Practice School experience has also helped us become familiar with the required professional attitude and the working environment of companies. We also got an opportunity to interact with and learn from many professionals who already have a lot of experience of working in industry. The constructive feedback from them has helped us in developing new skills as well as refining other skills. Hence Practice school has provided us ample opportunity to implement the techniques learnt in classroom as well as learn new concepts. I sincerely believe that due to this hands-on experience we are now better prepared for the future and experienced gained here will help in smoother transition from academics I have been lauded by my Managing team and Senior VPs on different occasions for assisting in accomplishing business milestones.	

Company	Experience	Year
Tolexo Online Pvt Ltd, Noida	When I joined BITS Pilani MBA, I was bit concerned for the corporate exposure that BITS and PS will offer me as there is not much corporate culture around. But as college life progressed I came to know from my seniors that the PS system is one of the best in country and I was told that I will have an experience like never before in terms of learning and development. As I joined PS, I realized those words were cent percent true and there is whole world out here to explore. The company and city gave me perfect combination to groom in. The mentors in the company were so helpful and counseled me through every challenge I faced. The projects imparted lots and lots of learning. I was given this task to design some of the new logics that will add intense value to the organization. The development of such systems gave me completely new way of thinking and improved my skill set profusely. The culture of the organization was too good to work in and was completely amicable where fresh ideas and innovative solution are hugely welcomed. I am so thankful to BITS and PS Division for providing me with such opportunity. The opportunity that extracted best out of myself and set me ready for the forthcoming corporate challenges.	2015-16-sem2
Tolexo Online Pvt Ltd, Noida	Tolexo - Digital marketing. Indiamart - Category mgmt, Taxonomy correction. Tools used (Development tools - H/w, S/w): Google Analytics, DM tools - Moengage, Mobizdom, Criteo, Responsys (Oracle), Gladmin (Indiamart's in-house category mgmt tool). Objectives of the project: To increase the conversion rate, decrease the bounce rate at every step of the shopping funnel. Outcomes of the project: Better CVR, reduced negative feedback. Major Learning Outcomes: Creation of online marketing campaigns, organisation of products on an eCommerce website catering to both the B2B as well as the B2C segments. Brief Description of working environment, expectations from the company: The working environment is relaxed, colleagues are supportive and the supervisors are helpful. The opportunities to learn the eCommerce business (both B2B, B2C) are immense.	2016-17-sem2

Company	Experience	Year
Tolexo Online Pvt Ltd, Noida	I started my PS with Tolexo, a subsidiary of Indiamart in the digital marketing team. I was responsible for analyzing the shopping funnel data and assist in formulating email marketing strategies. As the company's online operations shut down we were shifted to the parent company Indiamart. At Indiamrt i was in the product development team my project included analysis of different CTA's and designing of mock ups for different products. Tools used (Development tools - H/w, S/w): Google Analytics, Rb and Gamooga. Objectives of the project: To understand the functioning of digital marketing in an e-commerce setup. Outcomes of the project: Understood how to manage different marketing campaigns and measure the outcomes. Major Learning Outcomes: Digital Analytics. Brief Description of working environment, expectations from the company: I was very happy with the work i was doing in tolexo s i was getting to learn something new everyday, but at Indiamart the work progresses very slowly and no proper guidance is given as everybody are busy with their own tasks. We are not encouraged to explore new ideas and options.	2016-17-sem2
Tolexo Online Pvt Ltd, Noida	I work in process constituting 3 vendors whose operations are to be managed. I have been given the responsibility to manage operations of 1 vendor and achieve daily targets Tools used (Development tools - H/w, S/w): Sql. Objectives of the project: Learning vendor management in terms of financial and operations optimisation of the process. Outcomes of the project: I am able to deliver more than targets given, process improvements are suggested that helped reduce cost for nearly 30k a month for 1 vendor. Major Learning Outcomes: Negotiations skills, vendor management skills, team management, leadership, sql, dala analysis. Brief Description of working environment, expectations from the company: Working environment is really good, team members and management are cooperating, safety factors are there, and multiple facilities have been provides.	2016-17-sem2

Company	Experience	Year
Tonbo Imaging Pvt Ltd. - Image & Video Processing,	Bangalore Comments: The advantage of practice school is making students comprehend the industry and its needs even before going to a job and build their career. It helps in enhancing their skills by working on a live project but also prove advantageous to the organization by their innovative nature. The Students come from various discipline and work in various fields. By guiding the students from various branches of engineering like mechanical has given me an insight into the nature of work going on and the technology used. The students were given the skill set gap training so they are prepared before they come for the internship program. The students worked on various projects on image processing, embedded systems, physical design, communication, tracking of objects in motion, quality and reliability tests for the products, design of thermal management systems , verification and Validation etc. Interaction with the mentors helped in identifying the skill gap courses and set of basic courses need to work on the projects and the same was communicated to the students to refresh such courses before they join for internship. This helped the students to quickly ramp up with the work and start contributing towards the project. Also shared some of the e-books for system verilog, video basic books. PS II was truly enriching for the students as they got an insight into the latest tools technologies being used in the industry by working on the live projects . Student	2016-17-sem2
Tonbo Imaging Pvt Ltd. - Image & Video Processing,	Top-down mechanical engineering design of various systems. Tools used (Development tools - H/w, S/w): Solidworks. Objectives of the project: Design and fabrication of various systems. Outcomes of the project: Successful design and fabrication of various systems undertaken. Major Learning Outcomes: Practical application of various concepts (heat transfer, production techniques, mechanical vibrations, kinematics and dynamics etc) in machine design of different systems. CAD modelling and machine drawing. Hands on experience in 3D printing. Brief Description of working environment, expectations from the company: Very flexible and comfortable work environment. A lot of interesting work to do and thing to learn. Colleagues are also very friendly and helpful. You are expected to work diligently and have a strong understanding of your subjects. Overall a very good experience.	2016-17-sem2

Company	Experience	Year
Tonbo Imaging Pvt Ltd. - Image & Video Processing,	Multispectral real time Panorama stitching on Jetson TX1, ultrafast VideoStabilization for snapdragon 210/805. Tools used (Development tools - H/w, S/w): CUDA, OpenCL, C++, Android Studio, Android NDK, Snapdragon/Adreno and Nvidia profilers. Objectives of the project: As described in the title. Outcomes of the project: Completed both the projects well ahead of time with good quality results. Major Learning Outcomes: CUDA, OpenCL and the entire field of parallel programming. Brief Description of working environment, expectations from the company: Good work culture and helpful employees, huge scope for learning, better than many big companies in terms of work quality. Interesting projects here, great company for learning new and great stuff.	2016-17-sem2
Tonbo Imaging Pvt Ltd. - Image & Video Processing,	Hardware design of StagHound TI and testing and verification of StagHound. Tools used (Development tools - H/w, S/w): Cadence, Linux. Objectives of the project: To design hardware board. Outcomes of the project: Product design prototype is completed. Major Learning Outcomes: Hardware design flow, embedded system. Brief Description of working environment, expectations from the company: It was good experience as we have flexibility to work on area we want.	2016-17-sem2
Tonbo Imaging Pvt Ltd. - Image & Video Processing,	Developing an Os+d Display Manager for a Thermal Imaging Camera Using Cairo. Tools used (Development tools - H/w, S/w): Cairo, Pango, freetype. Objectives of the project: Integrating hardware OSD (on screen display) and Cairo to reduce CPU usage. Outcomes of the project: Reduced CPU usage by replacing Software OSD by hardware OSd. Major Learning Outcomes: Learnt to work in an embedded environment. Learnt to use softwares like wireshark and to code in Shell, C and C++. Brief Description of working environment, expectations from the company: The Company gives good projects in Embedded. This is the best option if one is looking for working in both hardware and software fields.	2016-17-sem2
Tonbo Imaging Pvt Ltd., Bangalore	My PS-II at Tonbo Imaging has been a part of the team working on low-power digital media processors. Past five months have been an amazing learning opportunity for me. I was introduced to various programming as well as operating systems concepts and was provided with a platform to implement those concepts. For my project, I had to employ queues, mutexes, semaphores, buffer pools, multi-threading and some basic knowledge of shared libraries and architecture of a real time operating system. Apart from this I	2015-16-sem2

Company	Experience	Year
	also used various aspects of media processing of the input stream. These media processing functionalities included de-multiplexing, packet parsing, decoding and rendering of the stream. As part of another task I have worked on modifying the server to support UDP based media streaming. This task helped me become familiar with basics of networking technologies and socket programming. Apart from learning various software related concepts, I have also realized how working in industry is different from academic projects. In industry there is a lot of emphasis on ruggedness and the programs are subjected to large number of stress tests so as to make them as bug-proof as possible. The programs are also reviewed by various people to reduce possibility of bugs. Moreover, even while writing a program, a lot of emphasis is laid on making it easy to read, understand and manage. Practice School experience has also helped us become familiar with the required professional attitude and the working environment of companies. We also got an opportunity to interact with and learn from many professionals who already have a lot of experience of working in industry. The constructive feedback from them has helped us in developing new skills as well as refining other skills. Hence Practice school has provided us ample opportunity to implement the techniques learnt in classroom as well as learn new concepts. I sincerely believe that due to this hands-on experience we are now better prepared for the future and experienced gained here will help in smoother transition from academics. Atmika Honnalgere I was a part of Software Development at Tonbo Imaging Private Limited. I worked on varied projects in the course of this internship. The very first project was to reduce the blur and skew in images obtained from a thermal camera. I was required to read research papers focused on the latest techniques developed to reduce blurring through deconvolution. Skew was to be measured by detecting lines in the image (using Hough transform) and measuring the slope. I even implemented Lucy Richardson deconvolution, a non-blind deconvolution method to deblur images. The second project was to calibrate a thermal sensor by computing the gain and offset matrix at varying temperature. It involved capturing images at varying temperatures by putting the camera in a temperature controlled chamber. My final project was to work on an application that tracks objects across the scene captured by the camera. I developed a part of the GUI and also developed a testing framework for the tracker to measure performance.	

Company	Experience	Year
	The projects required knowledge of C and C++. However, most of the skills required could be picked up on the job. PS allowed me the freedom to explore my field of interest. I got an opportunity to interact with and learn from many professionals who already have a lot of experience of working in industry. I developed many of the required skills to pursue a career in software development during the course of the internship. The PS program provided an opportunity to discover my strengths and weaknesses and work on them to be better able to contribute to organizational growth.	

Company	Experience	Year
Tonbo Imaging Pvt Ltd., Bangalore	My work in Tonbo Imaging involved designing existing units in sheet metal, designing heat sinks for different units, designing test setup for heat pipe systems for the units which are electro-optical payloads to be deployed in battlefield conditions. This was the main project for the whole internship. Other side projects were also given which were to be completed alongside the main one. These projects involved sealing and purging of the units, anodizing of the units. The projects were assigned as soon as we joined the company and the mentors were very helpful along the way. Along with these projects, we were involved in assembly of the units, which required no pre-requisite knowledge. We were encouraged to learn outside our projects too. During the course of the internship, I gained a basic understanding of Control Systems, Arduino programming and Mechatronics, which was made possible through the help and guidance of the mentors. As a mechanical student, no pre-requisite knowledge is required but a basic understanding of the CAD software SolidWorks was helpful in the beginning of the internship. Later on, we were given time to learn and apply ourselves, which I feel was the best part of the internship. The company has an excellent work culture, where one can directly interact with the company CTO and COO and give them your thoughts and suggestions, which they are always eager to listen and provide feedback. In conclusion, I would say that working at Tonbo Imaging provided me with immense opportunities to learn and grow. There is never an end to the projects and side projects to engage in, knowledge to gain and provide feedback to the company, which can be seen implemented in real time, which I feel is the best part of working here. If you have an interest in core mechanical design, analysis and testing, and want to be a part of a multi-disciplinary team, then I would suggest picking Tonbo Imaging. My sincere thanks to BITS Pilani and the PS Division for providing me with such an opportunity.	2015-16-sem2

Company	Experience	Year
Tonbo Imaging Pvt Ltd., Bangalore	My work in Tonbo Imaging involved in designing the methodology and implementing the environmental stress testing for Tonbo products, which are electro-optical payloads to be deployed in battlefield conditions. This was the main project for the whole internship. Other side projects were also given which were to be completed alongside the main one. These projects involved sealing and purging of the units, thermal sink design and testing, conversion of present designs to sheet metal ones. The projects were assigned as soon as we joined the company and the mentors were very helpful along the way. Along with these projects, we were involved in assembly of the units, which required no pre-requisite knowledge. We were encouraged to learn outside our projects too. During the course of the internship, I gained a basic understanding of Control Systems, Arduino programming and Mechatronics, which was made possible through the help and guidance of the mentors. As a mechanical student, no pre-requisite knowledge is required but a basic understanding of the CAD software SolidWorks was helpful in the beginning of the internship. Later on, we were given time to learn and apply ourselves, which I feel was the best part of the internship. The company has an excellent work culture, where one can directly interact with the company CTO and COO and give them your thoughts and suggestions, which they are always eager to listen and provide feedback. In conclusion, I would say that working at Tonbo Imaging provided me with immense opportunities to learn and grow. There is never an end to the projects and side projects to engage in, knowledge to gain and provide feedback to the company, which can be seen implemented in real time, which I feel is the best part of working here. If you have an interest in core mechanical design, analysis and testing, and want to be a part of a multi-disciplinary team, then I would suggest picking Tonbo Imaging. My sincere thanks to BITS Pilani and the PS Division for providing me with such an opportunity.	2015-16-sem2
Tonbo Imaging Pvt Ltd., Bangalore	My PS-II station is Tonbo Imaging Bangalore. I have been working here as a part of Embedded Electronics team. Past five months have been an amazing learning opportunity for me. I was introduced to various programming as well as embedded system concepts and was provided with a platform to implement those ideas. Major chunk of my project involved designing, building and deploying advanced imaging and sensor systems to sense, understand and control	2015-16-sem2

Company	Experience	Year

complex environments.For the implementation of the project, I had to learn various concepts like queues, mutexes, semaphores, image processing, multi-threading and some basic knowledge of shared libraries and also Python to automate some of the processes.As part of a task , I worked closely on a unit made with cutting edge technology, which helped me learn alot about image processing. Student coming for electronics internship are expected to have a sound knowledge of C, embedded system and some experience with Python. The initial two weeks in the company are all study about various technologies they are using but that is exactly what sets a tone for the next five months at office. Once you are experienced enough , you can see your work going directly into a product. We also got an opportunity to interact with and learn from many essionals who already have a lot of experience of working in industry. The team has rich experience on a range of battlefield modernization technologies, immersive surveillance and strategic electronics for military applications. The company principals and management have global experience being principal investigators for defense and aerospace programs. The constructive feedback from them has helped us in developing new skills as well as refining other skills. Hence Practice school has provided us ample opportunity to implement the techniques learnt in classroom as well as learn new concepts. I sincerely believe that due to this hands-on experience we are now better prepared for the future and experienced gained here will help in smoother transition from academics. To conclude, I would like to recommend this place as an option for all Electronics Engineering students who want to experience working somewhere you will feel independent and important. Vellala Shanmukha Spandana I have been a part of two teams Embedded Software Testing and Development team and RTL Design team at Tonbo Imaging Private Limited. I had learnt about middle ware, programming practices, industrial practices in developing testing frameworks and benchmarks for various defense and military grade products. I have worked on three different projects in the course of my five and half month internship. For my first project I had to learn a middleware cum operating system known as Robotic Operating System (ROS) and its features, applications and functionalities. For the next one I had to calibrate a magnetic compass used in most of the company's products and calibrate a cross platform testing framework for the products. For this project I had to brush up

Company	Experience	Year

my programming skills and understand various testing standards and practices in the industry. It involved learning of multithreading, usage of pipes, mutexes, and binary semaphores and implementing them according to the device specified. The next project involved developing of a sharpening filter for modifying images. For this I had to revise a few image processing techniques and filters concepts. I had to revisit the techniques taught in the classroom and develop a methodology for applying such techniques for the industrial standards (these require minimal error window). I had learnt to write bug free code, learnt various embedded software related concepts and implemented them in the real-time projects given by the company. I also understood various practices followed in industry for testing a product before its release into the market. I also understood the subtle difference between the academic projects and the real-time industrial products in terms of accuracy, testing and subjecting to harsh environment conditions before it reaches the customers. My initial work involved development of serial communication between two PCs running full blown ROS using various packages supported by ROS like rosserial, rosserial_arduino, rosserial_tivac, rosserial_embeddedlinux and various libraries like roscpp, roslisp, rospy. Later the testing framework was developed for a device with various modules like daylight imager, EO camera, sense array, LRF. The multithreading and semaphores helped in switching between the various modules and at the same time capturing the necessary readings. The project was further automated by developing functions for capturing the snapshots while sending a command, obtaining a response and checking the modifications in parameters. The other project involved developing a Verilog code for a sharpening filter which has minimum error window. Accordingly the appropriate filters have been examined and methodology for a customized (a near ideal) filter suiting the specifications is developed. The initial project involved the learning and mastering of Robotic Operating Systems middleware, and I had followed the tutorials in the ros.org webpage (community of ROS developers and enthusiasts). The other project needed an optimized way for developing testing framework which was done by revisiting the fundamental C and python concepts whenever required. The other one required brushing up of the filtering concepts and required material was provided by the mentor. Practice School experience has also helped me become familiar with the required attitude and the working

Company	Experience	Year
	environment of companies. I got an opportunity to interact with and learn from many professionals who already have a lot of experience of working in industry. The constructive feedback provided by them from time to time has helped me in developing new skills as well as refining other skills. The PS program provided an opportunity of analyzing my strengths as a team player and also an individual contributor apart for contributing to the organizational growth.	
Toshiba Software (India) Pvt Ltd, Bangalore	Comments: The advantage of practice school is making students comprehend the industry and its needs even before going to a job and build their career. It helps in enhancing their skills by working on a live project but also prove advantageous to the organization by their innovative nature. The Students come from various discipline and work in various fields. By guiding the students from various branches of engineering like mechanical has given me an insight into the nature of work going on and the technology used. The students were given the skill set gap training so they are prepared before they come for the internship program. The students worked on various projects on image processing, embedded systems, physical design, communication, tracking of objects in motion, quality and reliability tests for the products, design of thermal management systems , verification and Validation etc. Interaction with the mentors helped in identifying the skill gap courses and set of basic courses need to work on the projects and the same was communicated to the students to refresh such courses before they join for internship. This helped the students to quickly ramp up with the work and start contributing towards the project. Also shared some of the e-books for system verilog, video basic books. PS II was truly enriching for the students as they got an insight into the latest tools technologies being used in the industry by working on the live projects . Student	2016-17-sem2
Toshiba Software (India) Pvt Ltd, Bangalore	Firmware development using embedded C. Code optimization, algorithm development, design and testing. Tools used (Development tools - H/w, S/w): Linux, GCC and Visual Studio. Objectives of the project: Contribution to code optimization. Outcomes of the project: Expected contribution made. Major Learning Outcomes: Proficiency in programming, learning of storage electronics. Brief Description of working environment, expectations from the company: Supportive mentors, rigorous work schedule, learning possibilities high.	2016-17-sem2

Company	Experience	Year
UBER , Hyderabad		2018-19-sem2
UBER , Hyderabad	At Uber I had the opportunity of working with the analytics team. I was assigned a data science project and ad-hoc tasks. Work is interesting and challenging. Projects have a high impact. Tool used (Development tools - H/w, S/w) : SQL, Excel, Python/R Objectives of the project : Managing demand and supply in Uber eats. Major Learning Outcomes : Proficiency in SQL and Python, Building ML models Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Work Environment is amazing at Uber. People are dedicated and willing to help you. Manager is easily approachable. Academic courses relevant to the project : Machine Learning, Theory of Optimisation, Probability and statistics	2018-19-sem2
UBER , Hyderabad		2019-20-sem2
UBER , Hyderabad	My work consisted of automating the company's polices i.e, code JSON files and create API's and integrate it with the available backend endpoint created by the engineering team. Also maintaining various of dashboards of several line of businesses of Uber. Tool used (Development tools - H/w, S/w) : JavaScript, SQL, Python, Visual Studio Code Objectives of the project : Reduces the agent handling time of the help issues created by the customers, decreasing manual intervention of agents, increasing the cost savings of the company by reducing investment on agent. Major Learning Outcomes : Understood the business context of how several Lines of businesses work. Details of Papers/patents : Brief Description of working environment, expectations from the company : The people, managers in the company are very cooperative, always encourage you to learn new things in way that your output could be optimised. They're always willing to help freshers/interns in any case of technical difficulties. It's a five day working pattern with 9 hours work each day. You'll be provided 2 trips daily between office and your home. Academic courses relevant to the project : probability and statistics,SQL	2019-20-sem2

Company	Experience	Year
UBER , Hyderabad	My major project was to detect the fraudulent new users on the UberEats App. The project involved learning a few new languages, such as SQL and Cypher Query Language(used for graphical databases) and then building a model to predict whether the new signup is potentially a fraudulent user or not. Apart from these, there would be small projects required to build Dashboards, which was used by the stakeholders to get an overview of complex business metrics. Tool used (Development tools - H/w, S/w) : SQL, Python and Microsoft Excel Objectives of the project : Detect fraud users using UberEats App as soon as they signup. Major Learning Outcomes : The major learning outcome I can take from this internship experience is time, stakeholder management and understanding the objectives of a company from a business point of view. In the technical side, I became proficient in working with SQL and Python. Details of Papers/patents : Brief Description of working environment, expectations from the company : The employees and managers in the company are very helpful and help you feel comfortable in the environment. You will be treated as a full time employee and would be responsible for your work and will be expected to meet deadlines . It's a five day working pattern with 9 hours work each day, however as long as you complete your tasks the manager wont mind if you leave a little early. Academic courses relevant to the project : The skills required for this role is different than what the academic courses teach. However you will be given ample time to learn the skills required and then work on projects.	2019-20-sem2

Company	Experience	Year
UBER , Hyderabad	My work consisted of assisting Growth Team in making Dashboards and post analysis of the data obtained for various experiments conducted by them. Along with that, I have worked with the Green-light Team in successfully implementing their projects. Tool used (Development tools - H/w, S/w) : SQL, Python, Google Sheets, Data Studio Objectives of the project : Optimising processes in Growth and Supporting GL and India BD team Major Learning Outcomes : Understood the business context of how several lines of business works. Details of Papers/patents : Brief Description of working environment, expectations from the company : The employees, managers in the company always encourage you to learn new things in way that your output could be optimised. They're always willing to help everyone in any case of technical difficulties. It's a five day working pattern with 9 hours work each day. You'll be provided 2 trips daily between office and your home. Academic courses relevant to the project : Probability and Statistics, SQL	2019-20-sem2
UBS Business Solutions (India) Private Limited - Finance	Group , Pune	2018-19-sem2
UBS Business Solutions (India) Private Limited - Finance	Worked in Single Cost Ledger team to control the flow of financial data in Single Cost Ledger. To maintain & approve critical access, general ledger a/c creation & maintenance & monthly hierarchy creation & maintenance of cost centeres in SAP Tool used (Development tools - H/w, S/w) : SAP Objectives of the project : Financial data flow & control Major Learning Outcomes : Banking Systems, Data Management Sytems, Production & Testing environment Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Financial Accounting, Management Accounting, Corporate Finance	2018-19-sem2
UBS Business Solutions (India) Private Limited - Finance	Group , Pune	2019-20-sem2

Company	Experience	Year
UBS Business Solutions (India) Private Limited - Finance	I was working with the Finance group as a Financial Analyst in Corporate Lending, I was not assigned with any kind of project, I was doing the Actual work which is to be done by employees and I used to perform daily Profit and Loss Statements and Analyze the MTM with respect to the Market movements. I was also constantly in talk with the Front office established in US. I used to do the Validation and analysis of P&L. Also, Daily Balance Sheet Analysis and Commentary was also done by me, in B/S i used to do the analysis of Market movement with respect to our Daily P&L. Tool used (Development tools - H/w, S/w) : MS Excel, SAP and oracle. Objectives of the project : Calculate Daily MTM with respect to Market movements and validating the numbers with Ledger. Major Learning Outcomes : How to Calculate MTM with Int&fese. How Price movement actually vary with respect to the Market Movement and How it affects a firm on the Loans side Particularly. Details of Papers/patents : Brief Description of working environment, expectations from the company : The working environment of the Firm is very nice, all of the Employees are very helpful and ready to tell any kind of doubt. Basically, no need to have previous knowledge of anything in finance, if you don't know even P&L they will tell but you need to perform it with full integrity and collaboration. Academic courses relevant to the project : Financial Accounting Drivatives and Risk Management	2019-20-sem2
UBS Business Solutions (India) Private Limited - Group	Operations , Hyderabad	2018-19-sem2
UBS Business Solutions (India) Private Limited - Group	During my PS II, working at UBS Group Operations, Hyderabad, I was put into a change management project as an operations analyst. I was involved into one major project and two minor projects during my stay in the company. The major project I was a part of, I was assigned the responsibility of helping the team to increase the operational efficiency of the organisation. This was done through a tool which is a part of operational management. During the project I analysed the reports to find out the change in the quality of data and helping the team of increase the productivity of the individuals. I used the tool along with MS Excel and MS Access to perform the task. I was also able to complete the foundation certification of an Operational Management course. In the minor projects, I worked as a business analyst where my primary role was to gather and communicate the requirements to the respective teams and analyse the data to	2018-19-sem2

Company	Experience	Year
	improve its accuracy which can be used in capacity planning. I was assigned to report the discrepancies of the data quality on a reporting platform. Also I was entrusted to create an interactive dashboard which I did with the help of tableau. Apart from this, on my own initiative I learnt a workflow management tool and presented it to my seniors showcasing the benefits of it for the organisaton. Tool used (Development tools - H/w, S/w) : MS Access, MS Excel, MS Powerpoint, Tableau, Alteryx, RPA Objectives of the project : Planning optimum resource usage; Balancing cost, quality and service; categorize top applicatons for cost cutting. Major Learning Outcomes : Capacity Planning menthods and approach; Analysis and Communication Skills for Business Analysis and requirements; Reporting Process; MS office tools like Excel and Access; Tools like tableau and Alteryx. Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : The working environment at UBS group operations is very friendly and encouraging. The team I was working with provided me with a lot of help and support to pursue my objectives in the projects assigned. I was also given enough flexibility to put in my own ideas in solving the projects assigned to me. My team encouraged me to explore on new tools so that new ways could be found out to increase the operational efficiency of the organisation. In short, the organisation is very supportive in the actove participation of an employee in his/her new initiatives to improve its operational functioning. The company expects the interns/employees to be proactive in the work which is given to them, and conplete them within the deadlines mentioned. The organisation encourages innovative ways to solve a problem unless there are some procedures which needs to be followed strictly. The organisation believes firmly in honesty and intergrity of work and confidentiality of client data, breaching which is considered offense and actions may be taken against the offenders. Overall, the organisation is a very robust one and having a career here can make employees learn a lot about the banking culture. Academic courses relevant to the project : Project Management ; Production and Operations Management ; Financial and Management Accounting.	

Company	Experience	Year
UBS Business Solutions (India) Private Limited - Group	I worked as a KYC analyst in UBS (Group Operations) Hyderabad. The first part of my internship was to do the KYC periodic reviews of UBS clients. For this we were first given a training of 3 weeks where we were explained about all the tools that UBS uses to do KYC as well as all the process in the KYC of clients were discussed end to end. Post training, we were assigned with actual cases. I was able to complete 4 cases before being transferred to a different project. In the second project, I worked with On-boarding of UBS for Indian Securities Market. Here also, I was first given one week of training. After the training I was tasked to complete background checks for the Ultimate Beneficial Owners of the existing FPIs that were our clients. This had to be done because of a circular issued by the SEBI on 10 April, 2018 about the new format of UBO reporting for all the FPIs along with other guidelines. Tool used (Development tools - H/w, S/w) : MS Excel, MS Outlook Objectives of the project : Periodic Review of UBS-IB clients and Background Checks for BOs of FPIs. Major Learning Outcomes : Due diligence standards across AMER, EMEA and APAC regional regulatory regimes for Investment Banking. Details of Papers/patents : Brief Description of working environment, expectations from the company : The work culture is like that of a start-up, new updates regarding the process work flow came almost every week. We used to have quality referral calls daily for the better understanding of the process and clearing of doubts, if any. The client information is 3rd party restricted, so everyone was expected to be extra-cautious about any event of data-breach. The kind of relations you have with the people affects your work in many ways, mainly because people here are working in team rather than working individually. Academic courses relevant to the project : FOFA, SAPM, and DRM	2018-19-sem2
UBS Business Solutions (India) Private Limited - Group	Operations , Pune	2019-20-sem2

Company	Experience	Year
UBS Business Solutions (India) Private Limited - Group	I was part of a new team called data management office. It was their first team in India. I had to undergo full fledged trainings and was given responsibility of few processes. I was under the Data lineage maintenance team. Other than this, I was given the responsibility to automate our team's maintenance processes. We were two interns in the team and out of the 9 processes, we automated 5 of them and made their job very easy. Tool used (Development tools - H/w, S/w) : Tableau, microstrategy, Advanced excel, VBA, Collibra Objectives of the project : Data lineage maintenance and process improvement using automation Major Learning Outcomes : I've learnt a lot of things like how to communicate with senior high ranked employees, change management, setting up a new team, process improvement using Excel VBA, structuring the workflow, being a team player. Details of Papers/patents : Brief Description of working environment, expectations from the company : Our company considered us as high skilled interns, they trained us just like any other employee, and treated us highly. My team mates were the best. They helped me a lot and taught me new things. It was pleasure to join this new team and learn a lot from it. My manager always gave me higher responsibilities and considered me as a senior resource. Academic courses relevant to the project : Nil.	2019-20-sem2

Company	Experience	Year
UBS Business Solutions (India) Private Limited - Group	Work Done 2.1-Daily Process Reconciliation of data (Entity-3040, B999, B667, C205, C840, D604). In this we check that is any drop records from Input system (Gear- Ledger) to Merival Report. It done daily so that we can rectify it before the month -end and change the incorrect attributes (reason for drop records) so that the data should flow to particular account with correct attributes. Main Reason for Drop Records1- Inactive/ Incorrect Group Trading Partner 2- Incorrect Cost Centre 3- Incorrect Function ID 4- Inactive Account 5-Industry & Customer Type Code. Daily FX Deal When the transaction currency is different from local currency, then there is a FX open position created which can bring FX gain/loss on the transaction. To avoid this, we offset the open position by making the reversal entry, so that at the end of the month there is no open position in FX trading. 2.2- Monthly Process 3-way reconciliation – this has to done on U+0 data and before the sign-off the entity. Reconciliation of data- Gear Vs Merival Vs MCR. Calculation of bond & swap value in the local Currency of Subsidiary Curacao. Calculation of guarantee fees & Collateral for UBS Hypotheken AG. UBS Hypotheken AG has taken the guarantee for bond issued by the UBS IB London. GGAT Adjustment- Through this we can make adjustment in the merival report to avoid the drop records and hard validation. Attribute check - Through this project we have to check the attributes for which GGATs aren't posted and post the comments for the same. Tool used (Development tools - H/w, S/w) : Excel Objectives of the project : To do accounting of the Monthly process for different ledger, Swaps and Bonds Major Learning Outcomes : Through this internship, I have acquired advance knowledge of accounting. This internship has enhanced my skills in accounting, MS-Excel to do analysis on financial data. Details of Papers/patents : Brief Description of working environment, expectations from the company : UBS Pune has provided me with a great understanding of the working of corporate world. Academic courses relevant to the project : Fundamental of Finance and Accounting, Derivatives and Risk Management.	2019-20-sem2
UBS Business Solutions (India) Private Limited - RAS	FINANCE , Mumbai	2018-19-sem2

Company	Experience	Year
UBS Business Solutions (India) Private Limited - RAS	I worked upon writing Python Programs to analyse heaps of financial data and produce summaries that included various properties and characteristics as demanded by the Valuations Team that I was assigned to. Tool used (Development tools - H/w, S/w) : Python, Excel VBA, IRP Objectives of the project : Analysing financial data using the programming language Python. Major Learning Outcomes : I learned about the reporting, summarising as well as various analyses done on financial data produced from a Valuations prespective. I've also become more proficient at Python and Excel VBA. Details of Papers/patents : Brief Description of working environment, expectations from the company : The environment here at UBS is very much relaxed and the expectations set are given due time for process. Academic courses relevant to the project : Financial Management, Derivatives and Risk Management, Object Oriented Programming, Graphs and Networks, etc.	2018-19-sem2
UBS Business Solutions (India) Private Limited - RAS	FINANCE , Pune	2018-19-sem2
UBS Business Solutions (India) Private Limited - RAS	Worked on a large scale project for financial, operational and reputational risk reduction in the bank. Part of a newly formed data governance team, responsible for checking data quality, controlling risks and establishing an end to end smooth financial Reporting process. Tool used (Development tools - H/w, S/w) : Microstrategy, Excel, SQL Objectives of the project : Cost Reduction, Process Efficiency, Risk Elimination, Consistent Financial Reporting Major Learning Outcomes : Financial Reporting, Project Management Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment - disciplined, professional, empathetic Expectations - Work hours must be fixed Academic courses relevant to the project : Principles of Management, Econometrics, Financial Management	2018-19-sem2

Company	Experience	Year
UBS Business Solutions (India) Private Limited - RAS	Financial Reporting and Performance Analytics for the business division depending on the ledger entries and aligning the forecast with actual. Had a scope of automation in the reporting side with trainings on UAT testings, alteryx platform and Tableau. Tool used (Development tools - H/w, S/w) : SAS, SAP, IBM COGNOS, SHAREPOINT, UnifiNeo, Alteryx, Robotics process automation. Objectives of the project : Determining the scope of Automation and designing a business case. Major Learning Outcomes : The banking terminologies, working. The predictive analysis behind forecast and rational thought. Automation tools and there Outlook. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : N/A	2018-19-sem2
UBS Business Solutions (India) Private Limited - RAS	FINANCE , Mumbai	2019-20-sem2
UBS Business Solutions (India) Private Limited - RAS	I was alloted the Group Finance Division and the Hard Revenue Transfer Team. The major work was calculting the Hard & Soft Revenue/Cost transfers according to the Service Line Agreements b/w inter Group UBS entities. The work was mostly process oriented. Tool used (Development tools - H/w, S/w) : In house softwares were used majorly FS-Per, one needs to have a good grip on MS-Excel Objectives of the project : To Calculate the Hard Cost Transfers b/w specific UBS entities for the intership period. i.e. The calculations were done on monthly basis. Major Learning Outcomes : 1) Advance working proficiency in MS-Excel 2) Knowledge of how the Transfer Pricing is applied in corporates. 3) Knowledge of how payment transfers are done within the entities & the complexity of transfers so as to make it difficult for external entities Details of Papers/patents : None Brief Description of working environment, expectations from the company : The working environment was good, the team members were really helpful and considerate. The Manager was very good. This is a support center. Academic courses relevant to the project : Fundamentals of Accounting & Finance	2019-20-sem2
UBS Business Solutions (India) Private Limited - RAS	FINANCE , Pune Student	2019-20-sem2

Company	Experience	Year
UBS Business Solutions (India) Private Limited - RAS	Work mainly consisted of preparing daily and weekly revenue reports for different offices in London along with some adhoc analysis work. The processes are of two types which "Run the Bank" and "Change the Bank", interns are not made a part of the CTB process or the more fancy/better work. Tool used (Development tools - H/w, S/w) : MS Excel, MicroStrategy (beginner level) Objectives of the project : Major Learning Outcomes : Details of Papers/patents : Brief Description of working environment, expectations from the company : Work environment is good, people are helpful and cooperative. Academic courses relevant to the project : Fundamental of Finance & Accounting.	2019-20-sem2
Udaan , Bangalore		2018-19-sem2
Udaan , Bangalore	In udaan, I look after the costing of the food and fmcg operation which includes the monthly cost reports, cost estimation and cost optimization methods. Tool used (Development tools - H/w, S/w) : SQL, excel Objectives of the project : Cost optimization of food and fmcg supply chain operation. Major Learning Outcomes : Working of an e commerce company and it's supply chain. Details of Papers/patents : Brief Description of working environment, expectations from the company : Udaan is a very good company to work with no time restrictions. Most of the work includes solving real time problems. There is no hierarchy in the company and everyone's treated with equal respect. Academic courses relevant to the project :	2018-19-sem2
Udaan , Bangalore	Initially involved in figuring out cost structure of the Food & FMCG category at Udaan. Calculated various cost metrics related to the entire operations of the category. After about a month, I tracked and analysed delivery metrics and worked towards optimizing deliveries. The work involved finding why deliveries are not getting delivered and analysing that data through various cuts and angles : payment mode wise, region wise, buyer profile wise, delivery time wise etc. Later on, I shifted to a new team as Financial Planning and Analysis of newly launched Fresh category. Here, my work involved building all data related processes from scratch to capture and analyse a variety of information. This includes, inventory management, pricing, returns, delivery statuses etc. Using this data, I prepare monthly, quarterly and half yearly business plans, pricing startegies, sales forecasting etc. The	2018-19-sem2

Company	Experience	Year
	work also involves meeting buyers, conducting market surveys, understanding buyer concerns and recommending business actions to drive expansion. Tool used (Development tools - H/w, S/w) : MS Excel, SQL. Objectives of the project : - Business Planning / Budgeting. - Tracking business plans against performance. - Recommend business actions based on analytical findings. - Working with cross - functional teams to analyse processes and drive efficiency. Major Learning Outcomes : - SQL. - MS Excel - Startup world ; How it functions, how funding rounds really work, what is valuation, - Business Knowledge ; Understanding buyer concerns, how to launch a category from scratch, how various teams- ops, logistics, business development, product, tech come together to launch an ecommerce business - Finance ; How to make financial plans for a business, how to calculate buy-sell margins, product margins, stock reports. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working Environment is very optimistic. Everyone is motivated to add value to the company and drive growth. There's a lot of work, and therefore, a lot to learn, considering that major crowd is from IITs & IIMs and there are less than 5 BITSians in the company. Since most people at Udaan are building a business like this for the first time in their lives, questions, and sharing of knowledge is highly encouraged. The people encourage new ideas and fully support you to get them implemented, unless there's a very sound reasoning that they're too dumb. It's a very healthy environment that way. The only expectation people have is that you own your work. If a job is assigned to you, make sure you do it as perfectly as possible, and update on whether there are errors or whether some help is required to complete. It's either do-it-or-inform-what's-theblocker-so-i-can-help kind of culture. People aren't too strict on leaves either, just need an update beforehand. Academic courses relevant to the project : Common Sense. Oops, that's not an academic course at BITS unfortunately.	
Udaan , Bangalore	Student	2019-20-sem2

Company	Experience	Year
Udaan , Bangalore	Increased productivity of the field sales executive (FOS) by adoption of FOS app on a team of 189 members. Tool used (Development tools - H/w, S/w) : Excel, SQL Objectives of the project : To increase productivity of field sales executive Major Learning Outcomes : Communication skills, data interpretation Details of Papers/patents : Brief Description of working environment, expectations from the company : The culture in Udaan is really flexible and at the same time professional. However, it is very much dependent on the category and the team you're assigned. Academic courses relevant to the project : Maths II	2019-20-sem2
Udaan , Bangalore	The work involved managing PnL of a 20 Cr per month category in Udaan. Apart from this, we had to design monthly plans to give GMV targets to the sales team. Tool used (Development tools - H/w, S/w) : SQL, Python, Advanced Excel Objectives of the project : PnL, Pricing strategy, Dashboarding Major Learning Outcomes : SQL, Python, Advanced Excel Details of Papers/patents : Brief Description of working environment, expectations from the company : Udaan has a great work culture, my team never treated me as an intern, My suggestions were given a lot weightage. Academic courses relevant to the project : Principles of Economics	2019-20-sem2
Udaan , Bangalore	Buyer behaviour Analysis and modelling.Run targeted campaigns on selected Dormant Buyers to get them back on the platform. Tool used (Development tools - H/w, S/w) : Python, SQL,Excel, Sprinkle Objectives of the project : To increase the Repeat rate and sales. Major Learning Outcomes : Python, SQL , Excel, Business Analysis. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : The working environment is relaxed but professional behavior is expected. You get to travel(Bussiness Trips) a lot. Academic courses relevant to the project : NA.	2019-20-sem2

Company	Experience	Year
Udaan , Bangalore	-Increasing touch base of FOS(salesman) for collection - Reducing cash default behavior in collection -Reducing TAT for cash payment update in buyers account -Reducing TAT for customer issue resolution Tool used (Development tools - H/w, S/w) : Excel and My SQL Objectives of the project : To increase the collection on credit buying Major Learning Outcomes : market understanding,data analysis and interpretation,end user perspective on business Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is good if one is dedicated to his/her work,since its a startup there is no proper intern program, one has to ask for work to show others his/her potential Academic courses relevant to the project : Technical report writing	2019-20-sem2
Udaan , Bangalore	Data Analytics, Business Development Tool used (Development tools - H/w, S/w) : MS Excel, SQL Objectives of the project : Market Developmet Major Learning Outcomes : Corporate Culture, Functional Hierarchies, Market Dynamics, Data Analytics Details of Papers/patents : Brief Description of working environment, expectations from the company : Helpful mentors and managers who are very easy to approach. The work being done affects the day to day working of the company. Useful feedback received and improvements done. Academic courses relevant to the project : Supply Chain Management	2019-20-sem2

Company	Experience	Year
Udaan , Bangalore	1. Market research : Surveyed 15pincodes of Delhi on foot to size the market of fresh fruits and vegetables. Descriptive statistical analysis and inputs were given to demand generation team regarding each area 2. Business analysis : worked on multiple projects required to scale operations of category in New Delhi Tool used (Development tools - H/w, S/w) : Python Objectives of the project : 1. Complete market sizing of fruits and vegetables in Delhi Major Learning Outcomes : 1. Persistentance and resilience are key factors in determining your work output at a high pace startup like Udaan Details of Papers/patents : Nine Brief Description of working environment, expectations from the company : 1. Work alloted may seem trivial, but will be integral to company's business 2. Mentors will be very busy with their own work but will still manage to give you atleast an hour a week 3. The startup environment is high paced as aforementioned- this requires one to be available at all times with flexible working hours Academic courses relevant to the project : Principles of economics, management, statistics related courses	2019-20-sem2
Udaan , Delhi		2019-20-sem2
Udaan , Delhi	I was allotted the Fresh team in Udaan. My role was in both the supply and the demand team. I was supposed to coordinate between the two for efficient completion of my main project. I was responsible for giving them key market insights to drive sales in the entire Delhi region allotted to me. I was also allotted side projects in the supply team in both teams. The main project was to do the market sizing for the F&V industry in Delhi. It was to gauge the potential reach of Udaan Fresh and suggest initiatives to get into the serving the extremely widespread F&V industry in Delhi NCR. It was important to understand how much potential each pincode had along with understanding what kind of SKU would be ideal for each pincode. We used Statistical tools to get an unbiased view of the same. Apart from this, we did various side projects and got an overview into the entire process behind the supply side and demand side of this vertical and were able to learn various technical and soft skills to help us in our professional career post college. Tool used (Development tools - H/w, S/w) : SQL, Python, Excel Objectives of the project : An estimation of Purchasing Power of F&V category among various divisions of Delhi buyers was	2019-20-sem2

Company	Experience	Year
	to be done, considering the following factors: - 1. Pincode wise variations 2. SKU wise distinctions 3. Shop type categorization Major Learning Outcomes : Market Sizing, Statistical Data Analytics, Fundamentals of this very different field of F&V, Mandi dynamics, Regression Tools, SQL and Python, Biz Dev measures, Supply Chain Management Details of Papers/patents : None Brief Description of working environment, expectations from the company : The working environment of the company was just as one expects a start-up firm to have. As interns, however, the involvement in the day to day activities wasn't there and we weren't involved a lot in the team due to us having a separate project, which did not really affect the day to day functioning of the vertical. We had weekly meetings. The HR for the few of us in Delhi office was based in Bangalore only so it has operational challenges. But, since next semester onwards, Udaan Delhi is a separate PS station, this won't be a problem anymore. Not everybody had a separate project to be done. Those who were given projects in their team's day to day functioning enjoyed their stint. However, they did feel that the work was a bit monotonous. Overall, it was a good insight into the working of a B2B E-commerce company and helped one understand the nuances of this sector. The stipend, along with perks such as Ola Corporate would be considered a decent remuneration. Academic courses relevant to the project : Supply Chain Management, Business Communication	
Udaan , Delhi	Brief write-up on PS-II station : Udhyam: An NGO which is trying to build their technical team.Looking for students who are good in UI development,data analysis,visualization etc.	2019-20-sem2
UPGRAD , Mumbai		2018-19-sem2

Company	Experience	Year
UPGRAD , Mumbai	Learned to develop iOS Applications using the Swift programming language. Worked on maintaining and adding new features to upGrad's iOS Application on the App Store. This involved fixing app crashes, handling tech support from users of the app, and integrating new features which were previously not in the app, from scratch. Also worked on similar tasks for their Android application on the Google Play store. Tool used (Development tools - H/w, S/w) : Software: (available for free online in most cases) Programming Languages - Swift, Java Version Control - Git, Bitbucket IDEs - Xcode, Android Studio Hardware: (provided by upGrad) Macbook Pro (to develop iOS apps), various Android and iOS test devices Objectives of the project : Development of upGrad's iOS Application Major Learning Outcomes : I learned iOS App development and the Swift programming language. I also navigated through other important aspects of the app life-cycle such as ideation, implementation and release to production. On a generic level, I got familiar with an IT workplace, their hierarchy, the Agile development workflow and how upGrad functions in various verticals. Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : upGrad was an amazing station with colleagues that were open to suggestions and helpful in their guidance. I was able to transition from the initial allotment to their content writing team to the Tech team after having a chat with the relevant HR and Tech managers. They let us choose specific projects within the team based on our previous skills and future interests. While they do give advice if stuck at some point, they let the students explore and work out problems on their own, which was quite beneficial. I felt that I was given a good set of responsibilities and treated as a proper employee; something that was very lacking during PS 1. I would definitely recommend continuing with upGrad as a station, and sending in more students if possible, since they are looking to expand across domains, especially in the Tech team. Academic courses relevant to the project : None of the CS courses offered on campus had enough relevant practical project experience to be directly helpful, as they tended to be on the purely theoretical side. In addition, very little of the technology stack used is covered in any of the courses,	2018-19-sem2

Company	Experience	Year
UPGRAD , Mumbai	Improved grader feedback by developing frontend restrictions and created a dashboard that fills itself with grader-level information by the trigger of a Django API. Tool used (Development tools - H/w, S/w) : Python, Django, Javascript, Backbone.js, Google Data Studio Objectives of the project : To improve the grader feedback and help in sampling Major Learning Outcomes : Learnt full-stack development along with data science. Got to work with multiple technologies and got to understand the working of a tech team in a startup Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Extremely friendly work culture that gives us the freedom to learn whichever type of tasks that we want. Academic courses relevant to the project : Database Systems, Data Structures and Algorithms	2018-19-sem2
UPGRAD , Mumbai		2019-20-sem2
UPGRAD , Mumbai	Created content for learners with aim to teach them, but not limited to, python, PCA, Exploratory data analysis, data visualization in python, Linear Regression, Logistic Regression etc Tool used (Development tools - H/w, S/w) : Jupyter notebook Objectives of the project : To create content for learners Major Learning Outcomes : Got to learn basics of Data science and machine learning, concepts like Linear regression, logistic regression, PCA, EDA etc Details of Papers/patents : None Brief Description of working environment, expectations from the company : Most of the team members were seniors from BITS. Team communication and environment was very good. Academic courses relevant to the project : Computer Programming, Mathematics 2, Mathematics 1, DSA, Intro to Data science, Machine Learning	2019-20-sem2

Company	Experience	Year
UPGRAD , Mumbai	The project was related to the content development for the Blockchain technology. I was part of the team that was working on the development of the content for the Hyperledger Fabric, a blockchain technology for the enterprise. Tool used (Development tools - H/w, S/w) : Hyperledger Fabric Binaries, Docker, Fabric SDK for Node.js Objectives of the project : Content creation for the Blockchain Program. Major Learning Outcomes : Got to learn about the Blockchain technology for the enterprise, Hyperledger Fabric. Learnt how to create Node applications to interact with the chaincode. Learnt to send HTTP requests using Postman application. Details of Papers/patents : Brief Description of working environment, expectations from the company : Everyone is very supportive and ready to help you at any point of time you require it. The work culture is very good. You need to come before 11 in the morning and can leave at any time depending on the work for that particular day. Sometimes it can be as early as 4:30 or 5 in the evening and sometimes it can be even 9 or 10 in the night. One thing that stood out was that the people here are very helpful and are always there for you if you are stuck at some point. Academic courses relevant to the project : None which I had done.	2019-20-sem2
UPGRAD , Mumbai	Content Strategist for College programs - SD (Software Development) program. To compile the learning analytics for the modules and modify or suggest changes in the already the existing modules if required. Tool used (Development tools - H/w, S/w) : upGrad Platform, InterviewBit, etc. Objectives of the project : Content development and monitoring Major Learning Outcomes : Learn about Full Stack development and its various frontend and backend technologies Details of Papers/patents : - Brief Description of working environment, expectations from the company : Colleagues are wonderful, major force towards self learning, work can be redundant sometimes but overall a great experience. Academic courses relevant to the project : OOPs, DSA, PoM etc.	2019-20-sem2

Company	Experience	Year
UPGRAD, Mumbai	My work is mainly to do primary and secondary research to identify new program opportunities and also to identify monetisation for existing programs. Apart from this I need to coordinate with different departments in order to enhance the online learning experience for the existing cohorts. Tools used (Development tools- H/w, S/w): MS-EXCEL, Powerpoint, Word, Digital marketing knowledge. Objectives of the project: To add new programs in UpGrad's portfolio and improve the existing program in order to increase the enrollments for the existing cohorts. Outcomes of the project: Introduce 2 new programs. Major Learning Outcomes: Get different views and techniques to conduct result oriented secondary research, How to use marketing funnel and digital marketing tools. Details of papers/patents: Project report on research techniques and how I initiate my research to reach at some conclusive outcome. Brief Description of working environment, expectations from the company: Work environment in my team is very friendly, my mentor is very supportive and until and unless you completed the work which is allotted to you, no one question you for anything. Flexible working hours is an added advantage for a city like Mumbai. I expect that company can enroll the interns in one of their online course which can also be part of the evaluation and it helps student to make this time even more productive by acquiring new skills. Some of the courses like digital marketing, product management are very popular in market and anyone who come tomthis PS station should get the extra perk of completing any such course in these 6 months.	2016-17-sem2

Company	Experience	Year
UPGRAD, Mumbai	Creating a spam detection model that detects irrelevant content on the discussion forums of the online education app. Exploring web search APIs and semantic similarity APIs. Implementing a search to obtain similar questions on the discussion forums. Creating an application to collect feedback on whether selected pairs of questions are similar or not (to be used in training the similarity model later). Deploying the application and obtaining statistics from the user feedback. Refining the search algorithm to match its result to that of the user feedback to the best possible extent. Integrating the search function into the server application. Making necessary changes to the web application to collect feedback from TAs on the similar question search as and when the similar questions are displayed on the question tickets. Using the collected feedback to further train the search. Tools used (Development tools - H/w, S/w): Python, Django, Postgres, Natural Language Processing Toolkit, NumPy, Sci-kit and Wordnet. Objectives of the project: To develop and implement a similarity checking algorithm (with learning) to be used in searching similar questions in the discussion forums of the online courses provided by the organisation. Adding the searching and feedback collection to the server application. Develop a model for spam detection to filter irrelevant content on the discussion forums. Outcomes of the project: A search functionality which adds similar questions asked on the discussion forums on the question tickets to be addressed by the TAS the similar question notes also containing an interface to collect feedback to help improve the search and similarity algorithm. Major Learning Outcomes: Natural language processing and its use in finding semantic similarity. Use of machine learning algorithms to combine various features such as different similarity measures or different text features in case of spam detection. Use of databases, caches and worker processes in server applications. Details of papers/patents: Sentence Similarity Based on Semantic Nets and Corpus Statistics. Brief Description of working environment, expectations from the company: Flexibility in the choice of project to be undertaken. Suitable conditions and resources provided by the company to work on the project. Active assistance and feedback in developing and testing from mentors.	2016-17-sem2

Company	Experience	Year
UrbanClap Technologies Pvt. Ltd., Gurgaon	PS2 at Urbaclap was definitely a great experience, both in terms of being a practical application of the subjects that I learned as well as being a great exposure to the industrial world. I came in as a fresher who had no prior experience in Android development. The mentors at Urbanclap were not only patient while I got into my bearings with android, but were ever ready to help and solve any of my doubts, regardless of how trivial they may have been. The major projects I worked on was on developing a new contact picker for the app, a image picker library, analytics related to the performance of the app, and localization of the app into Hindi. The projects gave me a great exposure to the usage of git in code development, importance of open source libraries, the nuances of an app's performance and how to improve it and the complexities involved in the localization of an app. Beyond development, an internship at a startup is a very all rounded experience. The decisions regarding the company take place before you, and even as an intern you have a say in them. The strategies and plans used to run the company happen on a ground level, and allow you to get an idea of the intricacies involved in the running of a company. All in all, the opportunity to work in an up and coming startup like this, and to take up the responsibility of live projects was a great experience, and is something that has definitely helped me develop as an individual.	2015-16-sem2

Company	Experience	Year
UrbanClap Technologies Pvt. Ltd., Gurgaon	My internship at UrbanClap has been an overall enriching experience. In terms of learning, the experience has been nothing short of terrific. The time spent at PS2 has been a great teacher in various spheres, including but not limited to understanding corporate life, expert guidance and apprehending new technologies and their developments. This PS2 internship has given me exposure to corporate life and gave me a better understanding of the startup culture and the processes involved in end to end product development. Working at UrbanClap, I realised the importance of writing efficient and scalable codes. I was part of Customer Android team. Initially when I was allotted the team, I was a bit worried as I had never worked on Android previously. But the constant support, guidance and motivation of my mentors and teammates helped me get through the concepts of Android programming easily. I got to work on 4 different projects here that include Developing Cart and Scheduler system for booking categories, Real time Uberlike model for booking PEC categories (Plumbers, Electricians and Carpenters), TwoClick Checkout Model and Book Now/Book Later model for all the booking categories. All the 4 projects are currently used on the live app of UrbanClap. I learnt many new skills during the course of my internship. I learnt some very important things. Firstly, I got exposed to the world of Android and its applications in the development of real world applications. Also, I got to learn about version controls like Git. Finally, I learnt about handling pressures like delivering the code on time. This coupled with having very experienced and knowledgeable mentors shaped my thinking in carrying out projects the way they should be. I got to experience the corporate life first hand which helped me in understanding the way things are carried out in the corporate world. This is very different from the college life we were used to living. This gives you a sense of ownership which will lead you to great things in life. Secondly, you get to work on real life projects which teach you many things that you don't see in college. The new technologies coupled with great mentors, give you a fresh perspective to developing things. One PS achievement would be the Cart and Scheduler system development which was completed in about 30 days due to the requirement of the product. This completely changed the booking flow and increased the customer interactions on the app.	2015-16-sem2

Company	Experience	Year
UST Global - Business Domain(Cochin) , Cochin		2018-19-sem2
UST Global - Business Domain(Cochin) , Cochin	Work was majorly related to Market Research. Tool used (Development tools - H/w, S/w) : Web based data tools like Owler, CB Insights, Crunchbase Objectives of the project : Business Development Major Learning Outcomes : Better understanding Market reports like white papers etc. Details of Papers/patents : Brief Description of working environment, expectations from the company : Decent working environment, though not much for management students. Academic courses relevant to the project : Marketing and Market Research	2018-19-sem2
UST Global - Cochin , Cochin		2018-19-sem2
UST Global - Cochin , Cochin	My work for PS-II at UST Global was in the development of a platform for the organisation. I received a good exposure in the software development industry and about various tools and frameworks responsible to build a product. Tool used (Development tools - H/w, S/w) : Java, Spring, Hibernate, AngularJS Objectives of the project : Development of a platform. Major Learning Outcomes : Learned about new technologies and frameworks such as Spring and Hibernate in Java and UI development in AngularJS framework. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Computer Programming, Object Oriented Programming, Data Structures and Algorithms	2018-19-sem2
UST Global - Cochin , Cochin		2019-20-sem2

Company	Experience	Year
UST Global - Cochin , Cochin	Front-end Development and Debugging in JavaScript. Used ReactJS and Readux. Also worked in HTML,CSS libraries for styling. Tool used (Development tools - H/w, S/w) : Visual Studio Code Objectives of the project : Front-end Development and Debugging in JavaScript for a Business Financial Service Website Major Learning Outcomes : Front-end Development work first-hand experience Details of Papers/patents : Brief Description of working environment, expectations from the company : working environment :- really good and flexible.Not hectic. Academic courses relevant to the project : OOP, DSA	2019-20-sem2
UST Global Infinity Labs-Robotics , Thiruvananthapuram	My project was in the field of Brain Computer Interface. Objective was analysis & classification of EEG Signals so that we can use it for moving prosthetic arm. Tool used (Development tools - H/w, S/w) : Hardware - uArm, BCI headgear software- Python Objectives of the project : Classification of EEG signals, Moving prosthetic arm using BCI headgear Major Learning Outcomes : Machine Learning techniques Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : Working environment is very good. There was sufficient amount of time to finish the work before deadline.There was immense support from manager. Timings are strict. Academic courses relevant to the project : N/A	2018-19-sem2

Company	Experience	Year
UST Global Infinity Labs-Robotics , Thiruvananthapuram	Designed and implemented an embedded system for the control and navigation of an Automated Guided Vehicle. We also looked at PCB designing for the same. Various protocols were used and implemented. I also learnt a host of new topics which are relevant in the industry right now like Kalman filters and Python coding. Tool used (Development tools - H/w, S/w) : Micropython, Arduino, ESP8266 WiFi module. Objectives of the project : Designing an embedded system for an Automated Guided Vehicle Major Learning Outcomes : Learnt the practical intricacies of working with a working robot. Learned Micropython and by extension, basics of Python. Did a lot of literature survey on various topics in electronics. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : The work environment was very easy going. The timings were not very flexible, but not extremely stringent either. Variety of projects available, like AR/VR, Blockchain, Machine Learning, Computer Vision as well as web and software development. The mentor was very accommodating and allowed you to pursue your choice of projects. Academic courses relevant to the project : Microprocessors and Interfacing, Embedded System Design, Digital Design, Analog Electronics.	2018-19-sem2
UST Global Infinity Labs-Robotics , Thiruvananthapuram		2019-20-sem2
UST Global Infinity Labs-Robotics , Thiruvananthapuram	In the first project I had to build a web app with microservices framework using python. The second project was realtime big data analytics over a supermarket chain's Point of Sale data. Tool used (Development tools - H/w, S/w) : Python, Javascript, MySQL, Cassandra Objectives of the project : Geting an understanding of microservices their scaling. Major Learning Outcomes : Microservices, APIs, RDBMS, NoSQL Details of Papers/patents : Brief Description of working environment, expectations from the company : Work environment at infinity labs is decent, mentors will help you out if you have any issues. They provide restricted internet which might block some of the sites. They are strict about timings (arrival and departure). Academic courses relevant to the project : ML	2019-20-sem2

Company	Experience	Year
UST Global Infinity Labs- Robotics , Thiruvananthapuram	I completed a total of 4 projects. The first 2 projects dealt with Web Development using React.js. I designed, integrated, tested and documented a Speechmatics based Dashboard as well as a Questionnaire generator based Website. In the third project, I developed a Desktop Application and packaged it for Linux, macOS, and Windows The fourth project dealt with developing a Flask based App and deploying it using Knative to a single node Kubernetes Cluster within a cloud platform Tool used (Development tools - H/w, S/w) : Frameworks Used: JEST, Enzyme, PyTest, Sphinx, Electron and some company specific tools for their Cloud Platform Objectives of the project : To gain a sound knowledge as well as hands on experience of Web Development, Desktop App Development, Serverless Computing and Cloud Computing Major Learning Outcomes : 1) Serverless App Development 2) App Deployment using Kubernetes and Knative 3) Web Development using React.js 4) Desktop App Development using Electron 5) AWS ECR, AWS Lambda, Docker Details of Papers/patents : Brief Description of working environment, expectations from the company : The work environment is professional as well as peaceful. Mentors are very helpful and the projects are very useful for future endeavors. Academic courses relevant to the project : C, OS, OOP	2019-20-sem2
UST Global- Chennai , Chennai		2019-20-sem2

Company	Experience	Year
UST Global- Chennai , Chennai	1.We have created a model which is trained and tested using machine learning and its functions. User Interface also is created to ease the understanding of the working processes of the machine learning in this project and the use case. 2. We have used the node-red tool which is used to connect the internet of things on one platform and which makes things easier. We used this tool in creating a solution for maintaining of clean room conditions through monitoring the connections made and the results obtained in the node-red tool and applying the conditions we need of the results have a problem. Tool used (Development tools - H/w, S/w) : Html,css, node red,jupyter notebook Objectives of the project : To create a user interface to make it easier for the user to get the results without having to understand the back end. And to maintain clean room conditions for an assembly line through monitoring. Major Learning Outcomes : Have learnt how create user interface using HTML and also understood how a tool named node-red makes it easier to connect internet of things and how a company on a whole works when there is an order from the client. Details of Papers/patents : Brief Description of working environment, expectations from the company : It was really good. We had the freedom to get to know properly about the project and then helping the company in what we can. They even pushed our limits in understanding the processes. Academic courses relevant to the project : Machine learning, Neural networking and fuzzy logic	2019-20-sem2
UST Global- Chennai , Chennai	Machine Learning in Python, Web development, Serverless Cloud Computing in AWS Lambda. Tool used (Development tools - H/w, S/w) : Jupyter Notebook in Python, Eclipse IDE in Java, JavaScript, CSS, HTML, AWS. Objectives of the project : Project1: To predict the best seller for a product using machine learning. Project 2: To create the backend for a mobile app using JSON. Major Learning Outcomes : Learnt a lot about Machine learning and Serverless Computing. Details of Papers/patents : Brief Description of working environment, expectations from the company : It was a very good work experience which introduced the IT industry to me. Academic courses relevant to the project : Machine Learning. Object Oriented Programming.	2019-20-sem2
UST Global- Trivandrum , Trivandrum		2018-19-sem2

Company	Experience	Year
UST Global- Trivandrum , Trivandrum	We designed 3 blockchain usecases in the course of PS2. The blockchain platform we used is ethereum. Tool used (Development tools - H/w, S/w) : S/w Objectives of the project : Speedchain- In our use case, we are building a consortium among the medical insurance companies through blockchain technology. There will be a common platform where all the doctors' details will be stored which won't be company specific. We store the details which all the companies won't object to share like personal details, addresses etc. The company specific details like the contract details won't be stored in the blockchain. Since the common platform is blockchain, we won't have trust issues among the companies. Major Learning Outcomes : We learned about blockchain and some areas of front-end. We learned how to design ,develop, deploy and test the products. Details of Papers/patents : - Brief Description of working environment, expectations from the company : The work environment is good in the company. If you show interest then the mentors will push you. They are very supportive. Academic courses relevant to the project : Cryptocurrencies	2018-19-sem2
UST Global- Trivandrum , Trivandrum	Student	2019-20-sem2
UST Global- Trivandrum , Trivandrum	Developing an analytical tool which identifies the critical jobs (ETL scripts) of Masters Sequencer(Its is basically a acyclic Directed graph with nodes as it's jobs) based on the past Runtime of its Jobs .This tool helps in identifying its jobs which can be tuned to reduce the Runtime of Master Sequences. Tool used (Development tools - H/w, S/w) : Phython Pandas Matplotlib tkinter Objectives of the project : Find the Critical Path of Master Sequencers Major Learning Outcomes : Data Analytics ,Graph Data Structure , Critical Path Algorithms ,App Development using tkinter. Details of Papers/patents : Brief Description of working environment, expectations from the company : If you are working on Client side (like me)then most of the people are non technical or they don't know much about coding.You will get enough time for coding if you planning to study DSA in PS as work pressure is not that much . Stipend is bit low but sufficient for Trivandrum as it is cheaper than other places. Academic courses relevant to the project : OOP ,DSA and basic statistics	2019-20-sem2

Company	Experience	Year
UST Global- Trivandrum , Trivandrum	We were allotted mentor and project in a UK based client account- Equifax. We worked on an "AI Powered Test Case Selection". The idea and algorithm design was a innovative achievement, and we made a web application ahead. The application was presented in an international annual hackathon and secured a position in Top 3 teams (Out of 445 teams across all USTs) Its a great PS for people willing to learn from scratch and grow in software development. Tool used (Development tools - H/w, S/w) : Springboot, MongoDB, AngularJS, Docker, Jenkins, Junit, Jacoco, Cucumber, Istanbul Objectives of the project : Reduce the testing time for any Project application. Major Learning Outcomes : Agile methodologies of a development team. Front end Development. Back end Development. Developing AI from scratch without using libraries. Client library. Deployment and Dockerisation. Details of Papers/patents : Application for a Patent through UST Attorney's Filed. Brief Description of working environment, expectations from the company : The working environment was really good. There weren't any issues in our account for timings and all. The mentor and other senior were really experienced in the field and helped a lot in our learning and work. Academic courses relevant to the project : Artificial Intelligence, Machine learning, Neural networks, Object Oriented Programming, Operating System, Database management system	2019-20-sem2
Veritas Software Technologies India, Pune	Comments: Students are expected to be punctual, self disciplined, well mannered, having tolerance to ambiguity, willing to express themselves besides technical skills that BITS is imparting. PS-II intern is supposed to settle down quickly and contribute to the organization in short notice. Student	2016-17-sem2
Veritas Software Technologies India, Pune	The work mostly consists of enterprise product development and testing using various software tools. Objectives of the project: To add a new feature to the enterprise product regarding backup integrity. Outcomes of the project: Feature implemented. Major Learning Outcomes: Learned the software development cycle from various stages of development to various types of testing. Brief Description of working environment, expectations from the company: The working environment is warm and friendly. The company as a whole is a good place to work in. Quite a few departments have vacancies, so getting a PPO is probable.	2016-17-sem2

Company	Experience	Year
Veritas Software Technologies India, Pune	Developed a web portal for the company where users can watch videos, ask questions, take courses and solve their doubts. Correspondingly, admins are able to make courses and submit answers to posted questions. Tools used (Development tools - H/w, S/w): HTML, CSS, Javascript, Reactjs, Nodejs, Expressjs, Mongodb, Ant design, Git Bash. Objectives of the project: To develop a web portal where users would be able to watch videos, ask questions, take courses and solve their doubts. Correspondingly, admins should be able to make courses and submit answers to posted questions. Outcomes of the project: The portal with all required functionalities has been deployed. Extra features added are the 'login' access to the portal which is taken through the company ldap server and playing webex videos on site. Major Learning Outcomes: Other than expertise in the use of the tools mentioned above, I gained valuable insight into - how to consider all possible exceptions and resolving for each, color schemes and user ease of access on web sites, the difference between expected quality of results from company and college, handling deadlines and accompanying pressure, agile methodology and scrum teams, company policies and formality expected in a work place, how to give effective demos and presentations before a huge audience. Brief Description of working environment, expectations from the company: All company employees are extremely helpful and understanding. They are ready to spend extra time to explain and resolve intern doubts. They give buffer periods for an intern to learn and acclimatize to the tools before setting tasks and deadlines. There are some highly skilled employees who can easily solve any doubt placed before them. However, an intern needs to be proactive when asking for work. There are no strict timings, but there is daily reporting of progress.	2016-17-sem2

Company	Experience	Year
Veritas Software Technologies India, Pune	Inventory exploration and prioritization framework. Data Science project on ad inventory exploration for extracting true information. Prioritization involves using clustering - like techniques to segment inventories for enhanced economic utilities. Tools used (Development tools - H/w, S/w): python libraries like pandas, numpy and sklearn, scikit, and ad-hoc algorithms. Objectives of the project: Develop framework for extracting true information by increasing winrates on realtime bidding. Segment / Cluster inventories for better performance analysis. Outcomes of the project: Results were supporting hypothesis for both exploration and prioritization. Major Learning Outcomes: Re-targeting industry, ad-hoc data science and statistical algorithms, industrial data processing and manipulation techinques. Brief Description of working environment, expectations from the company: Great place to work. Mentored by experts who're strong at academic and industrial background. Flexible work timings and good learning experience.	2016-17-sem2
Viacom18 Media Pvt. Ltd - Corporate Strategy , Mumbai		2019-20-sem2
Viacom18 Media Pvt. Ltd - Corporate Strategy , Mumbai	Business Analytics and Business intelligence projects Tool used (Development tools - H/w, S/w) : Ms Excel, BARC BMW Objectives of the project : Multiple short term projects in data analytics and business intelligence Major Learning Outcomes : Structured thinking, problem solving approach, organisational and corporate culture, professional code of conduct. Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : Wonderful environment with a team that works on high stakes and is also consists of very qualified individuals. Great learning experience. Academic courses relevant to the project : N/A	2019-20-sem2
Viacom18 Media Pvt. Ltd - Digital Ventures , Mumbai		2018-19-sem2

Company	Experience	Year
Viacom18 Media Pvt. Ltd - Digital Ventures , Mumbai	The project was aimed towards understanding the main Voot Demographics to help the senior leadership in making key decisions, explore Chinese Ecosystem and maintain an active repository of branded content instances online which helped the Ad Sales team in improving client targeting, content team to identify themes and finally, the marketing team to forecast key metrics related to a web series. Tool used (Development tools - H/w, S/w) : MS Excel, MS Powerpoint, Salesforce, BARC, Mixpanel Objectives of the project : Sales Planning and Strategy, Business Development Major Learning Outcomes : Major enhancement in MS Excel skills. I was able to learn how to collaborate with different stakeholders and understand why few things are structured in a certain way. I could appreciate the processes and systems even more through my internship Details of Papers/patents : NA Brief Description of working environment, expectations from the company : The working environment is very conducive. Given, it is a media and entertainment company, you can expect fun things happening around, very informal and relaxed setting but having said that working hard is imperative. The more you get engrossed, the better results you will see for yourself. If you are sincere in your approach, you can get a full time role with Viacom18 Academic courses relevant to the project : Probability and Statistics	2018-19-sem2
Viacom18 Media Pvt. Ltd - Digital Ventures , Mumbai	Mentor Name : Vikram Rai Designation : Project Head comments : Student has good knowledge on Android and Data Analytics.	2018-19-sem2
VMS (Vakil Mehta Seth) Consultants Private Limited ,	Mumbai	2018-19-sem2
VMS (Vakil Mehta Seth) Consultants Private Limited ,	The project involves deigning a steel-concrete composite commercial multi-storey structure as per Eurocode and BIS guidelines. The solution was chosen such that it provided the most efficient sections in terms of stresses at ultimate stage and deflections at service stage. Any typical floor was divided into spans of 11m x 11m consisting of primary beams and secondary beams supported on columns at the corners. The section of primary and secondary beams were designed as per ArcelorMittal ABC Software package considering the composite action of slab, ensured by providing one row of shear connectors welded to the beams. Connections were designed using OSDAG software package. For achieving efficiency and economy the column section was varied along	2018-19-sem2

Company	Experience	Year
	the height of the building by decreasing the thickness of the plate, along the height of the building. To simulate the structure so as to get accurate behavior, the structure was modelled as a three dimensional steel-concrete composite ordinary moment-resisting frame with RCC ductile Shear walls in ETABS: 2016 and structural performance report was prepared. Finally bill of quantities for a typical 11m x 11m bay was prepared. Tool used (Development tools - H/w, S/w) : ArcelorMittal Beams calculator, ETABS, STAAD.pro, OSDAG Objectives of the project : To prepare a design basis report for designing the structural elements of a steel-concrete composite multi-storeyed commercial structure. To review the proposed design by preparing a structural performance report. To prepare the bill of quantities for a typical 11m x11m bay. Major Learning Outcomes : The program introduced me to the newly emerging field of "SteelConcrete Composite Structures". Enhanced my skills of modelling, analyzing and designing an efficient and optimized engineering structure. Exposed me to current practices followed in a design office like performing quick and accurate hand calculations, effectively using the standard empirical charts, coefficients, spread sheets and various national and international standards. Opportunity to get hands on experience of FEM based commercial software packages like ETABS, STAAD.Pro, ArcelorMittal Beams Calculator (ABC), OSDAG etc. by working on real world problem. Eventually leading to acquire the required competency in writing a DBR (design basis report), performing design calculations, and reviewing the design through a SPR (structural performance report). Details of Papers/patents : N.A. Brief Description of working environment, expectations from the company : VMS is a small firm in terms of employee numbers but large in terms of excelling in fundamentals of structural engineering bringing with it more than 60 years of experience in structural design. It is one of the few firms having representation in BIS code committees. The firm is a perfect place for freshers as it allows them to work on real world problems from day 1. The seniors are very cooperative and always ready to help. The top management makes sure that the interns are introduced to the challenges of the design office with a smooth gradient. Academic courses relevant to the project : CE G612-Advance steel structure, CE G618-Design of multi-stor-str, CE G551-Dynamics of structures, CE G615-Earthquake engineering.	

Company	Experience	Year
VMware Software India Pvt. Ltd. , Bangalore		2019-20-sem2
VMware Software India Pvt. Ltd. , Bangalore	Written code for the implementation of RAID 6 Erasure Coding. I was able to break the pages into 4 pages and then send them to the servers using RDMA. Then Parity data was calculated and was sent using RDMA. A server failure was simulated, and data was reconstructed successfully. VM was working without crashing, after the addition of the new code. Tool used (Development tools - H/w, S/w) : Perforce, C Language, bash Objectives of the project : Distributed Remote Memory project aims to target SAP-HANA kind of workload by aggregating the memory from the different hosts in the cluster, thereby forming the memory pool in the cluster. Introducing data reliability into Distributed Remote Memory. Major Learning Outcomes : • Making changes to a kernel code of Virtual Machine • Learning about RDMA and Erasure Coding • Writing pure C code Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : Work Environment is supportive, helpful and positive. Academic courses relevant to the project : Operating Systems, Computer Networks, Discrete Mathematical Structures	2019-20-sem2
VMware Software India Pvt. Ltd. , Pune		2018-19-sem2
VMware Software India Pvt. Ltd. , Pune	Worked on Guest Introspection. Two projects1)Driver development 2)API test bed automation Tool used (Development tools - H/w, S/w) : C++, Python, valgrind, gdb, postman Objectives of the project : To improve one of the drivers. To automate test bed of API testing Major Learning Outcomes : Multi threading and it's applications, data structure applications, concepts of many to many mapping, operating systems application. How actually TCP connections are made, modifications in them. VMCI socket connection libraries. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Operating systems, computer networks, data structures and algorithms.	2018-19-sem2

Company	Experience	Year
VMware Software India Pvt. Ltd., Bangalore	Automated test case for VnWare product that is Vmware identity manager. I have been part of live project testing for 1 month. Tools used (Development tools - H/w, S/w): Intellij, Selenium, gitHub, Maven, java. Objectives of the project: Creating regression test suite for vmware identity manager and deploying test on enviroments where it can trigger automatically and execute. Outcomes of the project: Regression Test suite created for vmware identity manager product. Major Learning Outcomes: Selenium, spring framework, testing. Brief Description of working environment, expectations from the company: Project is not much challenging and assigned department is testing. Working time on project was the 4 month and rest of the time involved in manual testing so learning is not as expected.	2016-17-sem2
VMware Software India Pvt. Ltd., Bangalore	Learned about the VMware SDDC stack. Also about the P2V converter product. Then tried to write jobs on their management platform to tie the two together. As of now, something or the other breaks at every step of the way. Tools used (Development tools - H/w, S/w): Java, VMware internal software. Objectives of the project: Implement a Proof of Concept for imaging+migrating a live physical machine directly to a VMWare cloud. Outcomes of the project: Nothing as of now. Major Learning Outcomes: Fundamentals of Virtualization (Compute, Storage, Network). Brief Description of working environment, expectations from the company: I feel no expectations, and a lot of team members often work from home - Leaving me stuck for days on things that could have been resolved in minutes. This leads to a lot of frustration, motivation reducing to zero and a rant on the PS-II Chronicles.	2016-17-sem2

Company	Experience	Year
VMware Software India Pvt. Ltd., Bangalore	I worked on java platform on VMware identity manager inside End user computing department of Cloud R&D. I worked on Saleforce Single and Bulk API. I have to provision and deprovision the salesforce users. The work extended to AWS as I have to develop an API gateway from scratch. It involved working with some of the most important tools of AWS like AWS Lambda, AWS S3 bucket as well as AWS API gateway. This was my starting project. I worked on JNDI API as well as LDAP servers to retrieve directory data from remote LDAP. I worked on RBAC also which involved creating a new role in the department and integrating to their main code repository. Tools used (Development tools - H/w, S/w): AWS, Intellij, Git, Putty and Postman. Objectives of the project: Implement a Proof of Concept for imaging+migrating a live physical machine directly to a VMWare cloud. Outcomes of the project: Nothing as of now. Major Learning Outcomes: Fundamentals of Virtualization (Compute, Storage, Network). Brief Description of working environment, expectations from the company: I feel no expectations, and a lot of team members often work from home - Leaving me stuck for days on things that could have been resolved in minutes. This leads to a lot of frustration, motivation reducing to zero and a rant on the PS-II Chronicles.	2016-17-sem2
VMware Software India Pvt. Ltd., Bangalore	I worked on an app called Data Centre Designer, part of the vCentre in the vSphere product suite of VMWare. I wrote rules and logic for the dynamically allocation of nodes and edges, and created an editable graph like datacenter network diagram for the user. Objectives of the project: To make storage more efficient, to avoid redraws and dynamically position the various nodes relative to the parent node. Outcomes of the project: The project makes it possible for users to design their data centres and the DevOps team will lay the networks accordingly. It enables easier visualisation of the overall network in a graph form, and the user can made edits to it as per his convenience. Major Learning Outcomes: Front end development, exposure to network drawing libraries. Brief Description of working environment, expectations from the company: VMware is known for its dynamic and challenging work environment. Frequent interactions with the manager and mentors, kT sessions whenever needed, projects which test your creativity and intelligence, a comfortable work place and cabin and well stocked pantry can be expected.	2016-17-sem2

Company	Experience	Year
Wabco India Pvt. Ltd , Chennai		2018-19-sem2
Wabco India Pvt. Ltd , Chennai	I worked here in PE (Product engineering) department for foundation brake team. Was allotted project on Automatic Slack Adjuster (ASA), one component of air brake system. My work was to understand the functioning of ASA and devise a new mechanism which can replace current ASA to next gen which has fewer components leading to lower cost. Tool used (Development tools - H/w, S/w) : Creo Parametric, MS excel Objectives of the project : To develop air motor for application of ASA. Major Learning Outcomes : Product designing Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment was good. Mentors and co- mentors were really helpful and guided along the right path. Free food (lunch & breakfast) 9hrs 5 days a week. Academic courses relevant to the project : Strength of materials, Machine design, Product design.	2018-19-sem2
Walmart Global Technology Services, Bangalore	My work was to modify the code in some already written programs and create log files to record the logs related to queries, their start time, end time and type of query (Read / Write) in order to calculate the overall throughput of the database. After the analysis of the log files generated and calculation of the throughput, next aim was to increase the throughput by optimizing the code as well as the queries and also changing the overall data storage structure. Tools used (Development tools - H/w, S/w): Hadoop/Hive/Python/SQL. Objectives of the project: Optimizing the code to increase throughput of mysql Database. Outcomes of the project: For the same 3 jobs the number of queries executed after the changes made were more than 4.5 times the number of queries that were executed before the changes that were made to the code and to the storage structure. This reflects a huge increase in the speed of query execution. Major Learning Outcomes: Big Data/Hadoop/Hive/Python. Brief Description of working environment, expectations from the company: The working hours are flexible. The team which I was allotted to was supportive. Initially they allowed me to learn the things I didn't know such as big data etc. Later on I was given a small work on a project and the team members were always in touch.	2016-17-sem2

Company	Experience	Year
Walmart Global Technology Services, Bangalore	I was part of the logistic team at Walmart which develops the applications for handling the logistics at the warehouses of Walmart. I was given back-end tasks for server side applications developed. The server side code was written in Java and they use Vert.x for the back-end instead of more popular Node.js. I was also given the automation testing tasks for the backend. Tools used (Development tools - H/w, S/w): Java, Vertx, cucumber, testing, Apache Frameworks, MongoDB. Objectives of the project: Development of logistics solutions for the walmart order fulfillment. Outcomes of the project: The project was not a single project but rather we developed several applications which were used by the logistics team. The code written also went into production and so it was used in the actual Distribution Centers in US. Major Learning Outcomes: At the end of the internship, I was able to develop entire back-end side server applications. I learnt about vert.x which is far better than the popular Node.js. I also learnt about backend testing tools like TestNG, Cucumber, etc. MongoDB was used for the database and so I also learnt about no sql databases. Brief Description of working environment, expectations from the company: The working environment at my team was excellent and the work was really good. But there were few teams which had no work at all, so it all depends on which team you are assigned to.	2016-17-sem2

Company	Experience	Year
Walmart Global Technology Services, Bangalore	The work involved in my PS-2 internship at Walmart Labs was related to Elastic Search. The idea was to use Data analytics as a tool, to observe hidden patterns and observations in the data used by e-commerce companies. Initially SQL queries were used to extract the required fields and find relationships between them. Elastic search is a very easy to use tool, and provides various visualisation softwares to be used on the top of it, hence making it easy to analyse the relationships. Tools used (Development tools - H/w, S/w): Elastic search, logstash, Kibana (ELK stack), Java, and Apache Kafka. Objectives of the project: Data analytics on business use cases using ELK stack. Outcomes of the project: Elastic search was used to analyse the business use cases using ELK stack. Multiple business use cases were solved using visualisation using Kibana. Major Learning Outcomes: By working on this project, I learnt new technologies such as Elastic search and ELK stack as a whole. Also by using results obtained from ELK stack, I learnt the business side of use cases and how they actually impact such E-commerce companies. Brief Description of working environment, expectations from the company: The working environment was good and I got a chance to work with talented people from different domains. Some teams work on very primitive technologies and I would expect them to work on some new technologies in future.	2016-17-sem2
Walmart Global Technology Services, Bangalore	Developed an automation framework to test the functionality of the OLCM component. Tools used (Development tools - H/w, S/w): Java, TestNg, Rest Assured, JAXB, xml. Objectives of the project: To test the functionality of the OLCM component. Outcomes of the project: Thorough testing of the OLCM component. Some defects were identified and issue was raised. Major Learning Outcomes: Got to learn about automated testing frameworks, xml parsers, marshaller and unmarshaller and how to properly use an IDE. Brief Description of working environment, expectations from the company: Work culture is pretty good, timings are flexible and colleagues are very helpful.	2016-17-sem2

Company	Experience	Year
Walmart Global Technology Services, Bangalore	Front end developer, Suggesting best performing products that are in the market and absent with Walmart using few metrics and graphs drawn, also written test cases searching an image (different views) of a product using its UPC. Tools used (Development tools - H/w, S/w): Angular JS, JavaScript, HTML, CSS, Jasmine, Karma and Gulp. Objectives of the project: project 1: suggesting best performing products that are in the market and absent with Walmart using few metrics and graphs drawn. Also written test cases. Project 2: searching an image (different views) of a product using its UPC. Outcomes of the project: Project 1: Finished with production and is in use. Project 2: it is used as a part of another big project where customers can search a product by ingredients, name etc... Major Learning Outcomes: Current Technologies. Brief Description of working environment, expectations from the company: Working environment is much friendly than i expected, all the associates are very happy and open for help anytime. But little more work is expected on the whole.	2016-17-sem2
Walmart Global Technology Services, Bangalore	My projects were front end web development. My first project was to create a prototype application implementing browser push notifications. My second project was to use React.js and Node.js to develop an internal communication tool for Walmart employees. Tools used (Development tools - H/w, S/w): Eclipse, Tomcat, React, Node and Webpack. Objectives of the project: Develop company related web tool using Electrode framework. Outcomes of the project: Successfully developed the first stage of required web tool. Major Learning Outcomes: JavaScript, web module bundling, Node.js. Brief Description of working environment, expectations from the company: Very amicable colleagues, flexible timings. Managers take an enthusiastic approach with interns.	2016-17-sem2

Company	Experience	Year
Walmart Global Technology Services, Bangalore	I have streamlined few flows in the return cycle of the product. I have made a Returns Dashboard which will be used by the team and business leaders to track the irregularities and monitor the ecosystem. Tools used (Development tools - H/w, S/w): Spring, Maven, Tomcat, Spring MVC, JSP, JSTL, JavaScript and AngularJS. Objectives of the project: To create a dashboard to have detailed report/analysis of returns. Outcomes of the project: Created a dashboard with find and search functionality and graphs for visualisation. Major Learning Outcomes: I got to learn development process and tools. Brief Description of working environment, expectations from the company: Working at Walmart has been a good experience. The people here are friendly and support you on and off. You get to work on real project and change see the change you are making for the organisation.	2016-17-sem2
Walmart Global Technology Services, Bangalore	Backend development and automation. Objectives of the project: Confidential. Outcomes of the project: Confidential. Major Learning Outcomes: Industrial practices for development. Brief Description of working environment, expectations from the company: Very relaxed working environment.Work can be horrible or really good - depends on the team you get.	2016-17-sem2
Walmart Global Technology Services, Bangalore	Developed the core micro-services for Walmart's Sourcing Knowledge Platform. Tools used (Development tools - H/w, S/w): Java, spring, Maven. Objectives of the project: To build an alpha iteration of phase-2 of the sourcing knowledge platform. Outcomes of the project: Our basic prototype is ready and can be demonstrated to the business. Major Learning Outcomes: Java, Software Development, Unit Testing, Web Services. Brief Description of working environment, expectations from the company: Nice working environment, good perks (free lunch, cab, gym), flexible working hours.	2016-17-sem2

Company	Experience	Year
Walmart Global Technology Services, Bangalore	A new service called the Dataset service was built which aimed at retrieving data from datasets and checking for the appropriate authorization. Also, the processing of datasets was rearchitectured replacing the old shell scripts that were being used with properly structured Java code to enhance the maintainability and testing. Data provided by external vendors was landed within Walmart and moved to the appropriate databases for further use. Tools used (Development tools - H/w, S/w): Java, Spring Boot, Maven, Junit Framework, Spring Framework, Hortonworks Sandbox, Apache Hive and Hadoop. Objectives of the project: To facilitate data movement between different pairs of sources and destinations and improve processing. Outcomes of the project: The data movement framework was built so that data could be moved as required. Major Learning Outcomes: Got insights about Big Data and frameworks required for Big Data processing. Brief Description of working environment, expectations from the company: The Company is too chilled out. The main pros are that Walmart takes very good care of its employees and interns, and there is not much pressure of work, so you can work at your own pace. The cons are that there is not much learning, the work that I did in the entire internship could have been done in a month. There is almost no guidance. People lack technical expertise and the quite a few departments are working on very old and outdated technology. I felt all my skills will get wasted if I stick around in that company for a few more days. Interview process is tough but can be cleared with good preparation. Take Walmart if you want to totally chill and don't care much about learning and growth.	2016-17-sem2

Company	Experience	Year
Walmart Global Technology Services, Bangalore	Worked on various small projects, all of which contribute to optimizing the cost of the Mineral Lube Oil system of Gas turbines. -Developing a tool (in Excel) for calculating heat transferred from Mineral Lube Oil (MLO) in a Gas turbine system, in cold ambient temperature conditions. -Implementing a new idea for the MLO system on an in-house 1-D CFD software, Floinhance to analyze its performance and therefore establish its practical feasibility. -Identify degassing techniques to apply to the MLO system to reduce a parameter affecting the cost of the Lube Oil console Tools used (Development tools - H/w, S/w): Excel VBA, Flowmaster and Floinhance (In-house tool) for 1D-CFD analysis. Objectives of the project: Reduce the cost of the Mineral Lube Oil system in Gas turbines. Outcomes of the project: Development of tools and identifying new methods, which on further research can lead to cost optimization. Major Learning Outcomes: Deep understanding of the Gas turbine and its auxiliary systems, Understanding P&IDs (Process and Instrumentation Drawing), Excel VBA coding, functioning of the organisation, Reading cost matrices for a project, Setting practical goals, Importance of theory in practical applications. Brief Description of working environment, expectations from the company: The work environment is relaxed; there is no constant pressure from mentors or managers. Ample time is given to learn new concepts required to complete a given task and you are expected to set realistic goals for the same. The employees are very knowledgeable and always willing to help. Except access to some confidential information, interns can actively participate in group meetings, brainstorming sessions and discussions across various teams and departments.	2016-17-sem2
Western Digital (SANDISK) , Bangalore		2018-19-sem2

Company	Experience	Year
Western Digital (SANDISK) , Bangalore	Tool Development for upcoming products. Tools are developed in house to test the products before entering the market, thus tools needs software and code modifications as per the latest specifications. These tools are generally coded in C, Cpp, c sharp, python or java. Tool used (Development tools - H/w, S/w) : C, C++, C#, Java, Python. Visual studio 2015, PyCharm. Objectives of the project : To enhance an in-house developed tool as per the specifications of the upcoming product. Major Learning Outcomes : Deeper learning of C, Deeper learning of driver development, Deeper learning of Non Volatile Memory Express protocol used by drives. Details of Papers/patents : Brief Description of working environment, expectations from the company : Cool and calm environment. Good mentorship. Crisp and clear communication. Academic courses relevant to the project : Object Oriented Programming, Computer Architecture, Basic computer science.	2018-19-sem2
Western Digital (SANDISK) , Bangalore	Implemented differential amplifier in place of inverter in order to get low power .Designed the differential amplifier as per the required specification in repeater path. Tool used (Development tools - H/w, S/w) : Candence Objectives of the project : Low power architecture Major Learning Outcomes : Designing of analog circuits , factors affecting the performance of architecture Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Analog IC design , VLSI concepts etc	2018-19-sem2
Western Digital (SANDISK) , Bangalore	Developing Test Firmware for screening out NAND Flash memories. Tool used (Development tools - H/w, S/w) : Atom Text Editor with Python Interpreter, Visual Studio, in house tools Objectives of the project : Understanding the NAND architecture and finding failures using test firmware Major Learning Outcomes : Data Extraction from Logs using Python, NAND Flash architecture and failure cases. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Embedded Systems, VLSI Design, Digital Design	2018-19-sem2

Company	Experience	Year
Western Digital (SANDISK) , Bangalore	Unit Test Framework does unit testing for SSD validation platform used in production testing. Unit Test Framework emulates the tester used in actual production along with SSD reply behavior and injects various errors to tester API, system API and device errors. Unit test cases will verify the CommonFramework platform code developed to run on production tester platform in actual scenario. Tool used (Development tools - H/w, S/w) : Google Test Platform, Valgrind, cppcheck, Gcovr,Gcov Objectives of the project : UNIT TESTING FOR NVMe SSD COMMONFRAMEWORK VALIDATION PLATFORM Major Learning Outcomes : Deep understanding of DS, OOPS concepts, OS concepts, C++ Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : OOPS, Operating System, Data Structures	2018-19-sem2
Western Digital (SANDISK) , Bangalore	The objective of the project is to develop the UDA (User Defined Algorithms) for controller based NAND evaluation well suited for memory reliability and qualification. To begin with, one must have a basic understanding of NAND and its operations like Read, Write, Erase. The UDA development is a part of post-silicon qualification. Various test flows/screens need to be developed based on specifications for the product qualification.Also, the goal is to develop the UDA for auto failure analysis of errors in gen 4 memory samples due to WL WL (Word Line to Word Line), WL-MH (Word Line-Memory Hole), WL-LI(Word Line -Line Interconnect) leakage. Tool used (Development tools - H/w, S/w) : Putty,Source Insight,WinSCP, Hex Editor Objectives of the project : The objective of the project is to develop the UDA (User Defined Algorithms) for controller based NAND evaluation well suited for memory reliability and qualification Major Learning Outcomes : Memory Basics like Read ,Write ,Erase . Details of Papers/patents : Brief Description of working environment, expectations from the company : Working Environment is good.All the teammates are quite supportive and encouraging. Academic courses relevant to the project : VLSI Design ,C Programming	2018-19-sem2

Company	Experience	Year
Western Digital (SANDISK) , Bangalore	Designed and Developed a parser which can parse binary file to a csv file. Packet formats were also designed. This packets are written to a binary file and the parser parses this binary file. Tool used (Development tools - H/w, S/w) : Different Code editors - VS, SourceInsight etc. Code testing softwares Objectives of the project : Design and Develop a generic parser that can work across multiple NAND testing platforms Major Learning Outcomes : Implementation of OS concepts in Linux kernel , Packet parsing mechanism, Design and Development of multi threaded programs in C Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : C Programming, OS , Computer Architecture,	2018-19-sem2
Western Digital (SANDISK) , Bangalore	Code coverage for USB Tester. Code Coverage is a measure used to describe the degree to which the source code of a program is executed when a particular test suite runs. A program with high test coverage, measured as a percentage, has had more of its source code executed during testing, which suggests it has a lower chance of containing undetected software bugs compared to a program with low code coverage.It tells how well the source code has been exercised by your test bench Tool used (Development tools - H/w, S/w) : C/C++ Objectives of the project : Code Coverage to make the source code of test program more effecient Major Learning Outcomes : C/C++ Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is very nice Academic courses relevant to the project : VLSI Test & Testability	2018-19-sem2
Western Digital (SANDISK) , Bangalore	Firstly we studied about High speed Design and some basic blocks (AFIFO AND SERDES) Then I designed a new data path architecture that is working at very high speed. Tool used (Development tools - H/w, S/w) : Cadence, Hspice, Finesim Objectives of the project : Project was divided into several phases. Phase I was focused on study, analysis the components of the design that degrades the performance. Study that components in detail. This was followed by some problems based on external setup/hold requirements. Phase II is Datapath Design. Major Learning Outcomes : Gain Sufficient understanding about the high speed data path design. Details of Papers/patents : NA Brief Description of working environment, expectations from the company : NA Academic courses relevant to the project : VLSI DESIGN, ADVANCED VLSI DESIGN, ANALOG IC DESIGN	2018-19-sem2

Company	Experience	Year
Western Digital (SANDISK) , Bangalore	Automation framework was developed and delivered to the company to increase the efficiency of Checkout system and increase the tester utilisation . Tool used (Development tools - H/w, S/w) : Jenkins Server Objectives of the project : Automation of Checkout system Major Learning Outcomes : Test flow was fully understood. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : None .	2018-19-sem2
Western Digital (SANDISK) , Bangalore	Worked in the DCS department on a service for providing a global namespace for bucket and identity management for the product. Tool used (Development tools - H/w, S/w) : Gitlab, Jenkins, Intellij. Objectives of the project : Major Learning Outcomes : Extensively worked on MongoDB and got to know the functionality and use-case of NoSql database. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Database Management System, Computer Networks, Object oriented programming.	2018-19-sem2
Western Digital (SANDISK) , Bangalore	The project is divided in 5 phases. Phase 1 constituted getting used to design tools and environment. Phase 2 intended on study of the existing design of 48 DUT Carrier, which is supposed to be modified into 24 DUT carrier, with a current measurement card as add on feature. Phase 3 was focussed on designing of circuits, according to the requirements. Phase 4 intends on implementation of design and schematics design using Cadence Capture CIS. This will be followed by phase 5 in which it is required to work with PCB layout engineer and review the schematics and correct them. Tool used (Development tools - H/w, S/w) : Cadence Capture, STM32CUBEMX, hyperlynx Objectives of the project : Design of a 24 DUT carrier for testing Major Learning Outcomes : Circuit design Details of Papers/patents : Brief Description of working environment, expectations from the company : Comfortable and helpful environment, completion of the project and design from the basic Academic courses relevant to the project : Microprocessor and Interfacing, Digital design, Analog Electronics	2018-19-sem2

Company	Experience	Year
Western Digital (SANDISK) , Bangalore	1. Schematic design of circuit and schematic making on orcad tool by cadence 2. Analog circuit simulation analysis using pspice simulator 3. Signal integrity analysis using hyperlynx 4. Working on CPLD for clock timing requirement Tool used (Development tools - H/w, S/w) : Quartus prime, vivado design suite, capture cis, pspice, hyperlynx Objectives of the project : To upgrade existing design of project to meet new requirements of internal customers as well as speed upgrade. Major Learning Outcomes : 1. Schematic design 2. SI problems and solution for high speed issues 3.Modification in circuit with opamp for yielding better results Details of Papers/patents : NA Brief Description of working environment, expectations from the company : The work constituted of analysis of previous design, understanding new requirements, proposing new design based on simulation results and making schematic for final layout making. There were weekly thrice sync-up meetings for the team to discuss on individual updates and tracking of projects. There was a session from director of our team for understanding the work done by interns and to collect feedback if any. There were regular diversity and inclusion meetings to increase awareness and making a friendly environment for work. The industry expectations from us as interns were to work and contribute to actual ongoing projects and bring about new ideas and new energy on the table. Academic courses relevant to the project : Reconfigurable computing, basics of analog circuit, Digital Design	2018-19-sem2

Company	Experience	Year
Western Digital (SANDISK) , Bangalore	A highspeed, low power, low start-up time, supply and temperature invariant oscillator is designed. Design specifications include frequency, accuracy and stability requirements of an oscillator. The oscillator should be trimmable for process, supply voltage and temperature variations. Tool used (Development tools - H/w, S/w) : Cadence Virtuoso, Synopsys HSPICE Objectives of the project : To design a high-speed, low power, low start-up time, supply and temperature invariant oscillator Major Learning Outcomes : 1. Internship work translates the theoretical learning in college to the practical challenges 2. Self Confidence on working challenging problems Details of Papers/patents : Working on journal paper and patent Brief Description of working environment, expectations from the company : Manager, mentor and other teammates always motivates, encourage and support to work on innovative circuits and designs Academic courses relevant to the project : Analog IC Design, Analog Circuits, Control Systems, Electric Circuits, Signals & Systems, Digital Circuits, VLSI Design	2018-19-sem2
Whirlpool , Pune		2018-19-sem2

Company	Experience	Year
Whirlpool , Pune	Detailed literature survey on glass failure and modeling techniques. Understanding the theory and LS-DYNA implementation of peridynamics, a method specifically developed for glass failure modeling. Perform benchmark simulation and sensitivity study to validate the method. Propose a general guideline for glass failure modeling. Tool used (Development tools - H/w, S/w) : LS-DYNA, Hypermesh Objectives of the project : To develop a simulation methodology to predict the impact load at which failure occurs in glass and also predict the crack pattern after failure. Major Learning Outcomes : Practical understanding of fracture mechanics and finite element method concepts.Hands-on exposure to LS-DYNA and Hypermesh. Conversion of an experimental test setup into a finite element model and simplifying assumptions associated.Experimental correlation experience.Soft skill improvement. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is friendly and people are willing to help if we have any queries.We were given time and freedom to learn new softwares and explore different approaches for the completion of the project. Academic courses relevant to the project : Finite Element Method, Fracture Mechanics, Material testing and technology	2018-19-sem2
William O Neil India Pvt Ltd , Bangalore		2018-19-sem2

Company	Experience	Year
William O Neil India Pvt Ltd , Bangalore	The work done was mostly related to the stock market and trading. Most of the time was spent on research about commonly believed investing strategies. The aim was to find out the best performing strategies and filter out the better threshold limits to build algorithms based on them. The work gave me a good exposure to the SQL Programming and also python. The procedure was to research various articles and come up with a proposal. Later, the events are coded in SQL and the reports are generated for analysis. All the research findings are then presented to all the teammates and best bullish/bearish signals were decided. The company specific CAN SLIM methodology was very interesting and helpful in picking up the stocks. We also had an opportunity to work on the buy and sell alerts that were sent by the company to their clients. It was interesting to look at the performance of those buy and sell alerts and finding the best alerts. Tool used (Development tools - H/w, S/w) : SQL AWS Redshift, Microsoft SQL, Pycharm Objectives of the project : Finding the best thresholds for commonly believed investing strategies and later use them as constraints for building algorithms Major Learning Outcomes : Knowledge in SQL programming, Programming in python using pandas library, Knowledge about various investment strategies, Stock market analysis. Details of Papers/patents : Brief Description of working environment, expectations from the company : A pleasant working environment with a supportive mentor who guides in all the obstacles. Company provided an excellent opportunity to work on investment strategies and also a good exposure to the company specific analysis of the stocks. Academic courses relevant to the project : Business Analysis and Valuation , Securities and portfolio Management, Derivatives and Risk Management.	2018-19-sem2
Worley Parsons India , Mumbai		2018-19-sem2

Company	Experience	Year
Worley Parsons India , Mumbai	The work done involves a variety of Data Science projects. The programming language used is Python and the most used tools are OpenCV (Open Computer Vision), an image processing tool which performs a variety of functions like image filtering and image thresholding, and Tesseract 4.0, an Optical Character Recognition (OCR) tool, which has been developed through Deep Learning. Students having experience with Machine Learning experience and knowledge can work on projects using Support Vector Machines (SVM), k-Nearest Neighbours (kNN) and those with Deep Learning experience and knowledge can work on projects using Convolutional Neural Networks (CNN) and Recurrent Neural Networks (RNN). I have worked on projects which were as follows: ConvertPDF, an application which converts scanned PDFs to searchable ones; DetectHolds, an application which detects a list entity called Holds from scanned Engineering drawings and transfer them to an Excel sheet; Handwritten Comments Extractor, an application which detects Handwritten Comments, written in color ink, from a black and white scanned Engineering drawing; AnnotationExtractor, an application which extracts the text from annotations in a PDF, and BrewCAD, an application which converts scanned Engineering drawings to an AuroCAD drawing. Tool used (Development tools - H/w, S/w) : Python language, Python-OpenCV, Tesseract 4.0 (through means of pytesseract and pyocr) and East Text Detector Objectives of the project : Objectives are mentioned in work summary Major Learning Outcomes : Got a good knowledge of Python along with experience in handling OpenCV and Tesssract. Some knowledge of CNNs was also gained. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment is healthy. Students are provided with enough time to think of innovative solutions which can be implemented to enhance the performance of the existing applications and to develop new applications. No work stress present and guidance is provided if needed. Company expects students to take interest in the projects offered and contribute to the development of the current applications and develop new ones as per the requirements of the clients. Academic courses relevant to the project : Machine Learning	2018-19-sem2
Worley Parsons India , Mumbai		2019-20-sem2

Company	Experience	Year
Worley Parsons India , Mumbai	The company needed a way to query data from hundreds of spreadsheets and databases via voice commands that will help save hundreds of manhours. I developed an Alexa Skill that makes a request to an Elasticsearch endpoint to query JSON data. I hosted my code on AWS Lambda which I connected to Alexa Skill. The Lambda was put as an endpoint for the Alexa Skill and the Alexa skill was a trigger for Lambda. Developing this taught me a great deal about how to work together as a team in developing a large application and about SDLC (Software Development Life Cycle) in Agile incarnation. During development, I have gained a deeper knowledge about NNLP (Natural language processing) and about AWS. Andrew Ng, an adjunct professor at Stanford University described AI as the 'next electricity', because just like the discovery of electricity, the advent of AI-powered applications will significantly increase the quality of life of everybody around the world. Similarly, using Alexa AI to connect to multiple databases would save a tremendous amount of manpower and help the organisation be more efficient. Working on this project helped me gain a hands-on approach to coding in two different languages (Python and Java), several platforms, and a lot of other computer science related tools and softwares. It also developed my interpersonal skills as I learnt to work as a part of a large team. Tool used (Development tools - H/w, S/w) : AWS Lambda, AWS Elasticsearch, Kibana, SSMS, Python, Java, Atom, Notepad++ Objectives of the project : A way to query data from hundreds of spreadsheets and databases via voice commands that will help save hundreds of manhours Major Learning Outcomes : Working on this project helped me gain a hands on approach to coding in two different languages (Python and Java), a number of platforms, and a lot of other computer science related tools and softwares. It also developed my interpersonal skills. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : CP, TRW	2019-20-sem2
Xilinx India Technology Services Pvt. Ltd. , Hyderabad		2018-19-sem2

Company	Experience	Year
Xilinx India Technology Services Pvt. Ltd. , Hyderabad	Project on hardware accelerator. Implementation of Static Timing Analysis using Xilinx Alveo u200 accelerator card. Tool used (Development tools - H/w, S/w) : Xilinx Vivado, SDAccel Objectives of the project : Performance improvement of Static Timing Analysis using Xilinx Alveo u200 Major Learning Outcomes : RTL coding and OpenCL Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Reconfigurable computing, VLSI Architecture, HW/SW Co-design	2018-19-sem2
Xilinx India Technology Services Pvt. Ltd. , Hyderabad	Student	2019-20-sem2
Xilinx India Technology Services Pvt. Ltd. , Hyderabad	Testlink is open source test management software used by our team. My major work was related to that. It involved documentation of testcases in testlink. Also enabling LDAP support for testlink. My major project was to write a python script to automatically get test results from the Result Viewer webpage and update these Test results in corresponding Testplan of Testlink. This was done using python webscrapping using requests and beautifulsoup libraries and testlink API. Apart from this I also had to improve some scripts written in shell. Tool used (Development tools - H/w, S/w) : Python , Testlink , Shell Objectives of the project : Automatic updation of results in Testlink Major Learning Outcomes : I learnt shell scripting and python programming. Using different libraries of python like requests , beautifulsoup , pandas etc. Details of Papers/patents : None Brief Description of working environment, expectations from the company : The work environment of the company is very good, All the team members are very friendly and helpful. The manager guided me through the project at each step giving help whenever required. The mentor was also very good and gave advice on not just project topics but for future knowledge and career too. Overall the company is very good to work at. Academic courses relevant to the project : Programming in C , FPGA	2019-20-sem2

Company	Experience	Year
Xilinx India Technology Services Pvt. Ltd. , Hyderabad	I was a part of team that does various operations that validate, emulate and simulate the RTL code before it makes it way to silicon. I was asked to make hardware designs so that software team could write applications to test various interfaces, test various peripherals and interfaces of an unreleased product and debug subtle issues on hardware by probing with an oscilloscope. Finally, I was given a serious and a huge project which aims to test the on-chip CAN controller. I successfully proposed the microarchitecture of the tester IP and got it approved. Tool used (Development tools - H/w, S/w) : Vivado, bash, python, sed, awk Objectives of the project : To test the on-chip CAN controller according to the ISO test spec. Major Learning Outcomes : CAN protocol, FPGA design flow, SystemVerilog, Static Timing Analysis, Clock Domain Crossing Details of Papers/patents : Nil Brief Description of working environment, expectations from the company : Working environment is GREAT. No complaints whatsoever. Employees here are highly motivated at the same time, flexible. Managers are highly supportive and they understand you. I was a part of a hardware team and was the only BE guy. Also, PPO chances for B.E may not be there. However, chances of you getting hired are substantially higher when xilinx come for campus placements. Academic courses relevant to the project : Introduction to FPGA, Digital Design, Comparch	2019-20-sem2
Yale University , Norway		2019-20-sem2

Company	Experience	Year
Yale University , Norway	The objective was to build computer vision based mobile apps for Android and iOS to detect and score events in sports, specially footballs drills such as counting the number of football juggles etc. The goal of the apps developed were such that they can be used out of the box with no setup, calibration or internet and produced accuracies of >98%. Tool used (Development tools - H/w, S/w) : For iOS Hardware: iPhone X, Macbook pro mid 2015 Software: XCode, Javascript For Android Hardware: OnePlus 6, Huawei P20 Lite Software: Android Studio, MLKit Objectives of the project : To detect and score sports drills using computer vision in mobile Major Learning Outcomes : Machine learning, object detection, tracking algorithms, multimedia dataset, iOS development, Android development, APIs, Google Firebase Details of Papers/patents : Brief Description of working environment, expectations from the company : Due to issues with visa we have not been able to visit the office. We worked from Bangalore during most of the project, and later in the Molde Analytics office in Hyderabad. We had flexible hours in Bangalore. We got to choose the components we would like to work on and set our own deadlines. All hardwares (Macbooks and iPhones) were bought for us. Workload was easy to moderate, and work was extremely interesting and educational. Molde Analytics had expected work-duration of 8 hours a day, with flexible in and out timings. The office is small but has all the required hardware. Academic courses relevant to the project : Data structures and Algorithms, Object oriented programming, Neural Networks and Fuzzy logic, Machine Learning	2019-20-sem2
Zendrive India Pvt Ltd , Bangalore	Student	2018-19-sem2

Company	Experience	Year
Zendrive India Pvt Ltd , Bangalore	Refactoring Android dogfood app code to achieve a better parity with the iOS app. Setting up a CI pipeline to run static analysis on the entire Android codebase to detect warnings and bugs during the compile task and post the errors as inline robot comments on the code review tool. Implement a visualization tool to analyse and identify SDK's most battery consuming components. Tool used (Development tools - H/w, S/w) : Android Studio, Java, Kotlin, Jenkins, Gerrit, Android bug reports, Static Analysis Objectives of the project : Refactoring dogfood app, setting up static checking pipeline, investigate battery tooling Major Learning Outcomes : Collaboration in a distributed environment, working closely to production branches, learning best industrial practices Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : I have been working as a software engineering intern with the Android SDK team for the past six months. My experience with Zendrive has seen a holistic technical as well as personal growth as I have been working very close to the production environment. A peculiar thing about Zendrive is that you get a lot of work done but you don't feel strained at any point in time; I think it is most probably because of the approachable, friendly and extremely talented peer group that one gets. This journey was nothing short of phenomenal. Academic courses relevant to the project : Computer Programming, Data Structures and Algorithms, Parallel Computing, Compiler construction, Computer networks, Principles of programming languages, Theory of computation	2018-19-sem2

Company	Experience	Year
Zendrive India Pvt Ltd , Bangalore	I worked at Zendrive Backend. My work involved creating automation solutions for production deployments. I worked on setting up an automated continuous delivery pipeline using Jenkins. After that, I set up a static code analyser to run on every piece of python code being checked in. My final project was setting up an infrastructure as a code tool from scratch. This tool helps replicating and creating entire production stacks through a single command. Tool used (Development tools - H/w, S/w) : Python, Jenkins, Amazon Web Services Objectives of the project : Automating Deployments through Jenkins Major Learning Outcomes : - Learnt how a startup goes from manual environment management to full automation. - Learnt how continuous delivery pipelines work and why they're important for agile development. Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : Parallel Computing	2018-19-sem2
Zendrive India Pvt Ltd , Bangalore	My work at Zendrive spanned multiple projects Assessing the performance of GPS sensors when it came to extreme acceleration events like collisions and hard brakes; Determining a threshold on phone acceleration beyond which phone movement can be classified as phone usage; Making improvements to Kalman filters used in Sensor Fusion algorithms; Assessing the scope for changing sampling frequency of motion data and refining the existing Sensor Fusion pipeline. Tool used (Development tools - H/w, S/w) : R, Python, Matlab Objectives of the project : Assessing performance of GPS sensors during extreme acceleration events. Threshold selection on phone acceleration to classify phone usage. Assessing performance of re-tuned Sensor Fusion algorithm on 100Hz data when compared to 5Hz data. Major Learning Outcomes : Advanced signal processing techniques, problem solving methodologies, technical skills in terms of exploratory data analysis. Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : Environment is very conducive to working - hierarchy is flat, upper management is very accessible, people are very helpful. Academic courses relevant to the project : Digital Signal Processing, Probability and Statistics, Neural Networks and Fuzzy Logic	2018-19-sem2

Company	Experience	Year
Zendrive India Pvt Ltd , Bangalore	My PS-II involves working with dogfood app which is an Internal testing app.This app is responsible for testing each and every test case of Zendrive SDK(In most simple term SDK is a collection of software which can be integrated with app and it depends on app developer how he/she uses it's functionality). Sometimes we add such functionalities to SDK which can only be validated by user. So we need changes in app UI to show results to the user so that they can verify them. If you don't have a scalable UI, ui change would take a lot of development time as well as effort. So, my first project revolves around designing a scalable UI for dogfood app. My second project was about app migration from Objective C to Swift. In this project I was involved in end to end development of app. We needed migration because nowadays swift has gain much more popularity over Objective C, so young developer prefer to start their development carrer with swift. So, ultimately if company want to work with these young mind, it has to change accordingly. Tool used (Development tools - H/w, S/w) : Xcode, git, Kibana, Objective C, swift Objectives of the project : Reduce development effort and time by making UI scalable Major Learning Outcomes : First project was mainly about UI, so learnt more stuff about different types of UI options iOS offers. Second project was about end to end development of iOS app. I was understanding code in Objective C and writing in swift. This way I was able to learn two language - Objective C and Swift. Moreover, I learnt about different states of app and also about different architecture(MVC, MVP, MVVM) we can use in app development. Details of Papers/patents : Brief Description of working environment, expectations from the company : Working environment in Zendrive is really cool. What I like most is that company has open culture i.e if you have any problem you can talk to anyone within the company. Moreover you can expect a team outing every quarter. You never feels hungry in Zendrive .Apart from providing free lunch, it also has pantries on each floor. Apart from all above stuff, you also have ample learning opportunities in Zendrive. As it is a startup, it try to allot production level projects to intern. Academic courses relevant to the project : Object Oriented Programming, Database Management System, Computer Networks, Operating System	2018-19-sem2

Company	Experience	Year
Zeotap India Pvt. Ltd, Bangalore	Implemented the backbone data platform of the company which enriches and makes queryable input telco data from several sources and loads it into one efficient data store which can serve both outside agencies and also other products at Zeotap. Our work involves designing(under the supervision of proficient technical architects) as well as implementation of the entire pipeline using the most apt Big Data technologies like Apache Spark, Apache HBase, Hive, Apache oozie, Amazon Redshift. Etc. Tools used (Development tools - Apache Spark, Apache HBase, Hive, Apache oozie, IntelliJ, scala, java, and python. Objectives of the project: To build a high performance and high integrity data ingestion pipeline. Outcomes of the project: build a high performance and high integrity data ingestion pipeline. Major Learning Outcomes: Proficiency in Big Data technologies like. Brief Description of working environment, expectations from the company: Work environment is great. There are no fixed working hours, free lunch and evening snacks and a fully stacked fridge. Team is great and will help you through everything. Interns are taken seriously and even Principal engineers hear patiently what you have to say during design discussions and daily scrum/standup. Small team, so you can shoulder a lot of responsibility. There is no pressure of work as long as you put in efforts and don't slack off. There are monthly parties. Also office events like ice cream evenings where lots of icecream is ordered in the office itself, on Friday evenings.	2016-17-sem2

Company	Experience	Year
Zeotap India Pvt. Ltd, Bangalore	The work involved the complete design of the data platform for zeotap which will be the backbone of the company. Apart from that we also had to maintain the existing pipeline that is being run in the company. Also got a chance to be a part of the migration of the entire services from one infrastructure to another. Tools used (Development tools - Apache Spark, Scala, AWS, and Postgres. Objectives of the project: Re architecture of Data Platform. Outcomes of the project: Data Platform. Major Learning Outcomes: Big Data technologies. Brief Description of working environment, expectations from the company: The working environment was very good. We go to work on all the latest technologies in the big data domain. We also had the freedom to explore any new technologies which we felt could be helpful in our projects. The mentors were very helpful and provided us with excellent guidance throughout the internship. New ideas were encouraged and even we as interns regularly took part in detailed design discussions with our mentors.	2016-17-sem2
ZiMetrics Technologies Pvt. Ltd. , Pune		2018-19-sem2
ZiMetrics Technologies Pvt. Ltd. , Pune	Using AWS Sagemaker, our first step was to make a POC for the client organization to show them the capabilities of Sagemaker and how it can be used to deploy not only some already built model, but to deploy Docker images directly onto AWS. Once that was done, we were required to understand their requirements and needs for a centralized data hub for the client. Tool used (Development tools - H/w, S/w) : AWS Sagemaker, NodeJS, Java Objectives of the project : POC for the client organization to showcase the capabilities of AWS Sagemaker Major Learning Outcomes : JDBC, AWS Sagemaker, NodeJS, Image Processing Details of Papers/patents : Brief Description of working environment, expectations from the company : Learning curve was great. Start-up culture meant we were working on multiple projects at the same time which provided great opportunities to learn and succeed. Academic courses relevant to the project : Image processing, Data Mining, Data Science	2018-19-sem2
Zinnov Management Consulting Pvt. Ltd (IT Project) ,	Bangalore	2019-20-sem2

Company	Experience	Year
Zinnov Management Consulting Pvt. Ltd (IT Project) ,	At Zinnov, I worked on developing the Draup platform, which is a subscription-based business intelligence platform designed to provide advice to people in the sales and HR departments of client firms. I worked as a Big Data Engineer and a Data Scientist, which was possible due to the flexibility offered by the firm in choosing my own projects. I was initially assigned to the ETL team (also called the Big Data team) where I worked on refining and consolidating data from various sources using Apache Spark. I later ended up working with the Data Science team on a project which combined the tasks of the two teams. I ended up learning a lot about how data processing is done in production environments on large databases, and how firms deal with the problems present in self-reported data. I also learned a lot about the various ways to remove junk from data obtained and how to obtain useful representations for use in machine learning models. I also had a project where I analyzed the ways in which Elasticsearch could be used as a data analytics tool. Tool used (Development tools - H/w, S/w) : Remote distributed clusters, Apache Spark, HDFS, MongoDB, MySQL, Elasticsearch, Keras Objectives of the project : To deduplicate and validate certification data Major Learning Outcomes : CNNs for text processing, string preprocessing methods, similarity checks. Details of Papers/patents : Brief Description of working environment, expectations from the company : The company provides a very open and friendly working environment. You are encouraged to take up projects that you find to be interesting, and to take responsibility for their outcomes. There is very little in the way of instructional training, except for the initial period where you learn about the tech stack you will be using (mostly Spark). However, you can approach anyone at any time for help, and they will almost always try their utmost to assist you (even if they have important work on their hands at the time). The company is also very generous when it comes to working hours, giving you the opportunity to work from home if you are unable to come to the office due to genuine unavoidable reasons. Academic courses relevant to the project : Data Mining, Information Retrieval, Machine Learning, Neural Networks and Fuzzy Logic	2019-20-sem2
Zinnov Management Consulting Pvt. Ltd., , Bangalore		2018-19-sem2

Company	Experience	Year
Zinnov Management Consulting Pvt. Ltd., , Bangalore	As part of the Zones team at Zinnov, my work revolved around the three major reports published annually by them which were on Engineering Research and Development (ER&D); Internet of Things (IoT), and Media and Technology (M&T). These reports provide ratings and rankings of various Service Providers in different verticals and horizontals, based on various parameters like capabilities; expertise; achievements etc. It was a great experience working in Zinnov, being a part of such a helpful team and gaining exposure to the world of consulting. Tool used (Development tools - H/w, S/w) : MS Office (Excel, Word and PowerPoint) Objectives of the project : The Zinnov Zones reports can be used extensively both by Service Providers (SPs) for marketing their expertise and capabilities and also, by OEMs while deciding the most suitable SP for the task. Major Learning Outcomes : Industry exposure and knowledge, Market research, Data Collection and analysis, Decision making Details of Papers/patents : N/A Brief Description of working environment, expectations from the company : The company is comprised of experienced individuals who are very helpful, and are easily approachable as there is no hierarchy. Flexible hours and a very supportive team. Academic courses relevant to the project : Principles of Economics, Current Affairs	2018-19-sem2

Company	Experience	Year
Zinnov Management Consulting Pvt. Ltd., , Bangalore	GENDER DIVERSITY STUDY 2019 REPORT (AN INDIAN PERSPECTIVE) Tool used (Development tools - H/w, S/w) : Excel, PowerPoint,LinkedIn search,Sales Navigator, Recruiter Objectives of the project : This study has been undertaken to benchmark the maturity of Gender Diversity and the programs implemented to enable the agenda within Indian organizations across industries. Our key focus is on the policies and practices companies are undertaking to foster gender diversity and sustainable inclusion, steps taken to establish a brand name of an equal opportunity employer, building the pipeline for future women in technology, and engaging them within their ecosystem. Major Learning Outcomes : Excel, Research skills, Power-point, Decision making, Location Analysis,basic functioning of consultant,Knowledge about various industries and digital technologies. Apart from this, soft skills were developed. Details of Papers/patents : Brief Description of working environment, expectations from the company : Friendly people, flexible hours, helpful seniors you can learn the basics of being a consultant while working in the firm. you can get a pretty good idea of corporate working culture here. Academic courses relevant to the project : Principle of Management, Current Affairs,	2018-19-sem2
Zinnov Management Consulting Pvt. Ltd., , Bangalore	Had fun working at Zinnov and Draup (Zinnov-IT) and learned a lot. Tool used (Development tools - H/w, S/w) : Objectives of the project : Web scraping, building alerts system whenever the required fields in a given website are updated above a thershold level. Major Learning Outcomes : Languages: Python Web technologies: Flask, Django, Javascript, HTML, CSS, pyQuery Databases: MongoDB (NoQSL), MySQL, SQLite, Redis Operations: Celery, Postman, SQLAlchemy (ORM), Celery, Git Others: Object oriented programming, Rest APIs (JSON) Details of Papers/patents : Brief Description of working environment, expectations from the company : Academic courses relevant to the project : DSA, DBMS	2018-19-sem2

Company	Experience	Year
Zinnov Management Consulting Pvt. Ltd., , Bangalore	As part of the Marketing and Strategic Initiatives team at Zinnov, my projects majorly revolved around coming up with rough plans and methodologies for new initiatives to be taken up by the team. All assignments involved intensive research into various industries like healthcare, fintech etc. and coming up with ideas to increase the visibility of Zinnov globally across these sectors. Overall this provided me with lots of learning opportunities and exposure to the marketing world Tool used (Development tools - H/w, S/w) : MS Excel, Word and PowerPoint, YouTube analytics Objectives of the project : Increasing the reach and visibility of Zinnov on social media and devising programs to generate leads for other divisions of Zinnov Major Learning Outcomes : Market research, data collection and analysis, presentation skills, exposure to current trends and technologies Details of Papers/patents : Brief Description of working environment, expectations from the company : The company consists of very enthusiastic and helpful individuals. There is no hierarchy and all high-level members of the team are always approachable. Academic courses relevant to the project : Principles of Economics, Technical Report Writing	2018-19-sem2
Zinnov Management Consulting Pvt. Ltd., , Bangalore	Worked with two teams for completing three projects. First project deals with advanced technology application by MNC's in India for research purposes. The second report is a holistic view of the B2B ecosystem in India and the effect of accelerator programs on B2B start-ups. The last report was a deep dive analysis of 14 tier 2 cities and to compare them on various parameters so that MNC's can judge the cities well for setting up their GIC's in India. Tool used (Development tools - H/w, S/w) : MS-Word MS-Excel MS-Powerpoint Adobe Photoshop Adobe Publisher Objectives of the project : Analyses based on client requirements and preparation of reports for further sale to clients Major Learning Outcomes : Data Insights; Presentation Skills Details of Papers/patents : NA Brief Description of working environment, expectations from the company : Very good working environment; Very friendly colleagues and helpful seniors; Punctuality and diligence expected Academic courses relevant to the project : Business Communications	2018-19-sem2
Zinnov Management Consulting Pvt. Ltd., , Bangalore		2019-20-sem2

Company	Experience	Year
Zinnov Management Consulting Pvt. Ltd., , Bangalore	Deep dive analysis of the companies to provide strategic approach to the clients Tool used (Development tools - H/w, S/w) : Excel, Powerpoint Objectives of the project : Strategic Consulting Major Learning Outcomes : Consulting and research Details of Papers/patents : Brief Description of working environment, expectations from the company : Zinnov is an excellent place to work in. Nice set of people with many valuable suggestions given Academic courses relevant to the project : None	2019-20-sem2
Zinnov Management Consulting Pvt. Ltd., , Bangalore	As part of the Gap team at Zinnov, my work revolved around the three major reports published annually by them which were on Engineering Research and Development (ER&D); Internet of Things (IoT), and Media and Technology (M&T). These reports provide ratings and rankings of various Service Providers in different verticals and horizontals, based on various parameters like capabilities; expertise; achievements etc. It was a great experience working in Zinnov, being a part of such a helpful team and gaining exposure to the world of consulting. Tool used (Development tools - H/w, S/w) : MS Office (Excel, Word and PowerPoint), Linkedin Recruiter Login and Naukri logins Objectives of the project : ENABLING THE GIC TO UNDERSTAND THE GOOD PRACTICES BEING FOLLOWED BY PEERS IN THE INDUSTRY TO MOVE AHEAD IN THE VALUE CHAIN & WALMART TECH TALENT BENCHMARKING. Major Learning Outcomes : Industry exposure and knowledge, Market research, Data Collection and analysis, Decision making. Details of Papers/patents : None Brief Description of working environment, expectations from the company : The company is comprised of experienced individuals who are very helpful, and are easily approachable as there is no hierarchy. Flexible hours and a very supportive team. Academic courses relevant to the project : Principal of Economics, Fundamental of Finance and Accounting , Business Analysis and Valuation.	2019-20-sem2

Company	Experience	Year
Zinnov Management Consulting Pvt. Ltd., , Bangalore	Our team was involved in rating the Service Providers in different industries such as Automotive, Aerospace, BFSI, Software & Internet etc. globally. We used to asses all the SPs on different parameters, which helped us placing them in different zones like Leadership Zone, Nurture zone, etc. MY major work was related to finding the insights and data points through Primary and Secondary research. Secondary research like LinkedIn, Naukri.com, etc. Tool used (Development tools - H/w, S/w) : MS-Excel, MS-PowerPoint, MS-Word, Objectives of the project : To rate various SPs globally in different verticals Major Learning Outcomes : My research skills were improved, learnt how to analyze the set of data in a meaningful way to find the trends of the market. Details of Papers/patents : Brief Description of working environment, expectations from the company : My experience was very good. Everyone follow a very enthusiastic approach which creates a very good environment to work in. At no point I felt that my questions would disturb anyone because everyone was so kind to give a good explanation to each of my question. The working environment is very good but I had one issue, the working hours are not fixed. Academic courses relevant to the project : POM, POE, Market Research	2019-20-sem2
Zinnov Management Consulting Pvt. Ltd., , Gurgaon		2018-19-sem2
Zinnov Management Consulting Pvt. Ltd., , Gurgaon		2019-20-sem2

Company	Experience	Year
Zinnov Management Consulting Pvt. Ltd., , Gurgaon	I was involved in numerous projects during my stay, all of which were directly used by the company as work for their paid projects. The company has a lot of work, so interns are directly involved in the project teams to gain maximum work. I worked on both, whitepapers and reports, as well as proper projects for companies doing compete and peer analysis of their market segment. Tool used (Development tools - H/w, S/w) : Linkedin Sales Navigator, DRAUP, Microsoft Office Objectives of the project : The objectives of the projects were confidential, but in general they were about the knowledge of the AI market, and how the big and small players are working in the segement across the verticals Major Learning Outcomes : About the market of Digital technologies like AI, IoT, etc. Learnt presentation and report making, doing primary interactions. Details of Papers/patents : Brief Description of working environment, expectations from the company : The people environment is friendly. The gurgaon office focuses on digital technologies and its a new division for the company, so the environment is very much like a startup, where there is always too much work, and the more you volunteer to do, the more would be expected out of you. There is no distinction between employees and interns in the amount of work being done. They will happily offer ppo to someone who is interested and does decent work, and it might be a good place to work for exposure to responsibilities which might not be possible for many years in a bigger company. Academic courses relevant to the project : Market Research, Finance knowledge	2019-20-sem2

Company	Experience	Year
Zinnov Management Consulting Pvt. Ltd., , Gurgaon	I worked with the Private Equity team on multiple projects for PE firms/their clients. The clients are majorly US-based PE firms and their software portfolio companies (mostly enterprise software companies). The work ranged from:1. Generating insights from data to confirm various hypotheses regarding value creation for PE portfolio companies 2. Identifying potential acquisition targets for client PE firms and conducting deep dives on the shortlisted targets (deal sourcing) 3. Developing frameworks to conduct due diligence and deal evaluations. 4. BD work including creating proposing and reaching out to Partners of PE firms and acquire new clients. 5. Creating industry/market maps for enteprise software companies operating in various verticals. I took up two additional projects on my own:1. I developed some web scraping scripts to capture data from commonly used websites and speed up the database generation processes. 2. I attempted to develop a ML model that can predict valuations of enterprise software companies better than EBITDA/Revenue mutliples. Tool used (Development tools - H/w, S/w) : MS Excel, MS PowerPoint, MS Power BI, Python Objectives of the project : The major objective of my projects was to provide pre-deal and post-deal phase services to private equity firms. These included deal sourcing and commercial due diligence in the pre-deal phase and developing value creation strategies. Major Learning Outcomes : - Deal sourcing - Secondary research - Data analytics using Excel and Power BI - Data visualization using Power BI - Commercial due diligence - Building decks Details of Papers/patents : NA Brief Description of working environment, expectations from the company : The work environment can depend on the manager that you're allotted but it usually tends to be hectic on most days of the week (including weekends). The official timings were 10.30 to 6.30 and Monday to Friday, but the work usually gets extended to after office hours (when you're at home/weekends). To generate a good learning experience for oneself, one must go beyond the regular work and take initiatives to do meaningful work. I was working in the newly formed Private Equity team so I got plently of opportunities to do so. Academic courses relevant to the project : No courses are directly relevant but a knowledge of Principles of Management/Financial Management/Marketing Research can help.	2019-20-sem2