

Data is not just a record of what has happened, if interpreted correctly it can provide a roadmap to all our future course of actions. It takes deep mathematical concepts and a sound understanding of computer algorithms as well as an innate business sense to extract valuable insights from data. Since I have always possessed these qualities, the desire to learn and apply data science for solving real world problems comes naturally to me. I believe that an opportunity to study data science from your university will equip me with the knowledge and skills required to pursue my career goals.

As a high school student, I developed a keen interest in electrical and electronic systems, which motivated me to pursue an undergraduate course in electrical and electronics engineering. While pursuing the undergraduate course, I acquired a firm foundational understanding of electrical science, electronics, computer science and advanced mathematics. I also had the opportunity to perform experiments in control systems lab and power engineering lab, where I had a chance to apply data analytics techniques.

While pursuing my undergraduate studies in electrical and electronics engineering, I also had the opportunity work on two projects. One of the projects involved developing circuitry for irrigation systems, where we were required to build a control system that would acquire information about moisture level of soil from various locations. And accordingly activate the sprinklers for a limited time ensures that soil attained desired moisture levels. The second project which I worked on involved designing of circuitry for induction based domestic cooking. In this project, the challenge was to produce optimum heat with minimal consumption of electrical energy.

In order to put my technical training to practice, I participated in several internship opportunities during my undergraduate program. I worked with an NGO for a duration of 40 days, and helped them build a logistics application to enable swift delivery of mid day meals to various government schools. For the project, we used Ant colony algorithm to build a reliable routing app for the mid-day meal program.

I also got an opportunity to visit Vizag steel plant which is the largest steel plant of India. Through this industrial visit, I acquired a deep understanding of processes through which steel is produced and transported.

After completion of my undergraduate course, I worked at Schneider Electric for 2.6 years. At Schneider Electric, I was primarily involved in maintenance and update of the company's technology systems and had a chance to work with technologies like SQL, Java. Through my work experience at this organization, I have developed a strong skill set in Java programming, data querying and analytics. Using the techniques of data

querying and analytics, I helped Schneider Electric extract insightful information from call logs.

Working in the area of data analytics has enabled me to realize the enormous potential of data science in solving real life business problems. My interest and passion for data science has inspired me to research various data analytics techniques and develop my expertise in the field. I have learned Machine Learning through an online course offered by Stanford University on Coursera as well as worked on attaining functional expertise in Python and PluralSight.

Based on my realization of my inclination towards data science, I feel that a formal post graduate level education in data science will help me to pursue a career in data analytics. It will equip me with the skills and knowledge required to work as a technical data analyst and then gradually work my way to become a data scientist. I believe that my work experience in a techno managerial position has helped me to inculcate leadership skills which are essential for attaining a responsible position in the field of data science. After fulfilling my career aspirations, I desire to use my expertise to solve the problem of road traffic.

While I have worked hard to develop functional expertise in data science, I need formal post graduate level education in data science, as this will enable me to learn the subject from industry leading experts and acquire in-depth knowledge and skills that will enrich my proficiency thereby allowing me to pursue my chosen career goals. I especially inclined to pursue my education from the data science department of your university, as it will give me an opportunity to work with accomplished faculty and students. This exposure will undoubtedly help me to enhance my technical and managerial skills while giving me an opportunity to work in a multi-cultural environment.

