
My Fascination for Science and Technology

Developed through the technological architecture of electrical engineering and the computational language of mathematics, the science of computer technology has provided considerable recognition and financial gain for many of its well deserving pioneers. Steve Jobs famous quote 'computers themselves and software yet to be developed will revolutionize the way we learn'. He believed that there are tremendous developments and endless possibilities yet to be explored in this field of computer science. I foresee computer science being used as a tool, as mathematics is used, for all the fields of science. It has always been important for physicists, chemists and biologists to have some understanding of specific areas of mathematics to express their ideas, to write down formulas, and to make predictions. Similarly, in the near future, computer software will become an integral part of the research to create new breakthroughs.

For instance, all fields of science collect and analyze a large amount of data. Finding patterns in large amounts of data has always been a crucial block. However, by using state of the art of software for data mining and machine learning, hidden trends and patterns may emerge that can help increase understanding and solve problems. All these problems and their seemingly possible solutions have always motivated me to make artificial intelligence as my part and parcel of my life. A fascination for Science & Technology and a keen interest in the ever-growing world of technology motivated me to take up engineering. I choose to major in Electronics and Telecommunication Engineering with an intense urge to delve into the challenging field. During my undergraduate program, I learned the various fundamentals of Electronics Engineering, I was exposed to various courses with applications like Electromagnetic field, Control systems, Power Electronics, Electrical measurements, Linear Integrated Circuits, Electronics, Digital Signal Processing, Introduction to Operating Systems, Microprocessors, Microcontrollers and object-oriented programming with C++, Analog, and Digital electronics. I was always fascinated about microcontrollers, the fact that it is something that bridges the gap between computer software and real-world mechanical devices, which gives it the potential to sense the surrounding using various sensors and take decisions based on parameters it receives. This fascination inspired me to do a project on Coal Mine Safety System using Atmel AVR microcontroller in my final year. I enrolled myself in the course of CCNA (Cisco Certified Network Associate) and CCNP (Cisco Certified Network Professional) which introduced me to the world of networking and communications. My knowledge of computer networks and programming skills helped me to get a job in Reliance Jio Infocomm Limited. I am working as a part of network planning and optimization team for past 10 months. My responsibility is to plan and provide optimal indoor solutions for smooth network coverage and data throughput. A quotation attributed to Edsger Dijkstra, states that 'computer science is no more about

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computers than astronomy is about telescopes'. The design and deployment of computers and computer systems are generally considered the province of disciplines other than computer science.

Computer science is the cross-fertilization of ideas between the various computer-related disciplines, and electronic engineering. I believe that combining these two disciplines will give an excellent grounding in both subject areas and will prepare us for a wide range of careers in both or either fields. This cross-discipline study will give the advantage of becoming a multi-skilled professional engineer with a thorough understanding of the concepts and techniques plus the chance to explore the exciting interface between the two. It is in this context that I wish to pursue a Master in Computer Science. The decision to pursue Masters in Computer Science naturally followed after a good deal of self-evaluation, carefully considering my area of interest, and my ultimate professional ambition, which is to pursue a research career, either as a teaching faculty member or in an R&D department of an industry. I am confident that a graduate degree specializing in Artificial Intelligence will enable me to achieve the goal and prepare me for a Ph.D. program in the future. I believe that graduate study in a reputed department, such as yours, is important for a person aspiring for a research career.

Working for a thesis under the guidance of an expert whose work can serve as a model is the most effective method of transforming a student into a largely independent researcher making significant original contributions. I feel that XX university with its comprehensive facilities and competent faculty doing quality research work in the field of artificial intelligence will be an ideal place for me to pursue graduate studies.

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