

A truly promising business with immense potential for growth and development in the future is one which has heavy application of technical expertise. I have always been intrigued by the myriad ways in which technological applications have changed the course of a project, and its application in business is one of them. Having worked for two years at J P Morgan Chase, I have realized the importance of technology for business, and I wish to develop software that can improve the efficiency and accuracy of business processes. My ambition is to work at the forefront of the field of technology and find innovative solutions to suit the changing needs. Through a postgraduate education in Management of Information Systems, I intend to acquire quality knowledge and unmatched guidance that will pave the way for me to grow personally and professionally.

Since childhood, I have been fascinated with computers and curious about its potential applications in our lives and careers. After completing high school, I wanted to probe this field for possible real world applications and so, I decided to pursue my undergraduate studies in Computer Engineering. During this period, I enjoyed several courses that gave me deep insights into the field of computer science. My course on object-oriented programming taught me how to write real-world programs using Java and object-oriented concepts. I learnt how to design and implement various basic and advanced data structures and perform data modeling. I grasped the key management aspects of software projects through my course on Software Project Management where I learnt how to define project characteristics, environment risks, and management challenges. This course also taught me how to apply various management principles at different phases of a project.

Eager to apply my theoretical knowledge and delve deeper into the field, I decided to use my skills to develop a website from scratch. This website, known as Happy Cook, would take ingredients as inputs from users and suggest recipes from various cuisines featuring those specific ingredients. Users could also create their profiles, save their favourite recipes, and subscribe to a newsletter providing information on new recipes. This was my first experience in website development and I developed in-depth expertise in HTML, PHP, and CSS.

When I learnt programming in my undergraduate period, I was curious to understand its applications and the scope of a project using programming. So, I developed an extremely precise device locator that could use various WiFi access points to locate a 3D object. This device is suitable for WiFi-enabled locations such as colleges and hospitals where accurate distances of objects from WiFi points can be measured for remote detection. Through this project, I learnt how to use MATLAB and gained insights in object-oriented programming.

After these two projects, I was ready for a more technical project in the field of machine learning where I could truly understand the potential of computer technologies for real world applications. So, I worked on stock market predictions using neural networks to enable investors and financial experts in taking wise decisions and earning more profits. My objective here was to create a neural network that could predict the direction of equity trends given a subset of historical data and technical indicators. My second objective was to carry out a sentiment analysis of news articles about stock markets and classify them as good or bad in order to determine its impact on stock behaviour and

make better stock prices predictions. To achieve accurate stock market predictions, I used a supervised learning algorithm known as BP neural network which could take input datasets and generate output in the form of graphs and statistics. This project familiarized me with the various machine learning algorithms and the implementation of back propagation algorithm for neural networks. I got the opportunity to publish my results in the International Journal of Engineering and Management Research and my paper was selected as Best Paper of the Session at the National Level Students Conference on Frontiers of Engineering and Technology applications – 2017.

Having developed a deep interest in several of my undergraduate subjects, I took the initiative to find out more about them through courses conducted by external organizations. One of my favourite practical courses was Web Technologies, and to gain further insights in this area, I pursued the course Web Technology Level 2 conducted by Monster India. During this time, I was able to deepen my knowledge of HTML, PHP, AJAX, and CSS and to understand their implementation in real world projects, I used these to develop an e-commerce application with a payment gateway. This course enabled me to become up-to-date with the latest technologies and implement scalable solutions in my future projects. I also wanted to gain in-depth skills in programming as this is essential for most product development projects, and so, I pursued an Advanced Java course conducted by Mikado Solutions. This course covered all aspects of Java and at the end of the course, I used Java programming to develop a shopping cart application. My knowledge of Java programming has enabled me to approach and solve real world problems in an object-oriented manner.

After completing my undergraduate studies, I was enthusiastic to work in the field of technology and develop my knowledge and skills in the latest computer technologies used globally. Hence, I started working at J P Morgan Chase as a Technology Analyst where I was a part of several outstanding projects. I have always wanted to work in the field of product development and at J P Morgan Chase, I had the opportunity to get involved in all stages of the life cycle of product development such as designing, building, and testing. I specifically worked on SpringBoot framework to resolve business problems and develop useful applications. Working in collaboration with highly experienced software engineers, I developed immense insights into various project tasks and learnt how to work in an organized manner.

Having worked here for some time, I recognized a gap in my company where several repetitive tasks could be automated to increase the efficiency of business processes. Therefore, I took the initiative to develop the necessary architecture for automating multiple processes to reduce errors and save development time. One of the most important stages of product development is testing, and in order to gain experience of working on this crucial stage, I troubleshooted issues, addressed user queries, and prepared technical documentation. I developed a knack for analyzing the available data and finding the root cause of the problem that appeared in the product. I was also in constant communication with product users as well as company employees regarding various technical issues that arose with the product and addressed them to the best of my ability. Eventually, I understood the problems commonly faced by users and prepared extensive technical documentation that users could use for addressing the issues by themselves. Having proven my expertise and skills in various stages of product development, I was promoted to the post of Deployment Manager where I facilitated and coordinated synchronized

releases of products to deliver the best quality products to the end users. This helped in ensuring that untested code was not forwarded to the production team and the quality of the final products was unmatched.

After two years of working at J P Morgan Chase, I now wish to climb the technology ladder and this can only be possible if I have an advanced knowledge of the latest technologies. I am also interested in pursuing research in the field of product development, especially in the area of creating business applications that drive technology solutions. I want to be able to leverage technology for business problems and build a bridge between business and technology. Hence, to strike a balance between management and technology, I wish to pursue a postgraduate education in Management of Information Systems. After completing my higher studies, I would like to take up a position that can offer active involvement, team-oriented projects, exciting challenges, and career growth opportunities. Eventually, I would like to hone my technological skills and develop intelligent business solutions that can do justice to the amount of data we have at our disposal today.

In order to make use of machine learning and data science for developing business applications, I wish to take up a postgraduate program in Management of Information Systems at _____ University. The numerous research projects that I have worked on during my undergraduate period have given me a strong command over the concepts. I now wish to deepen my understanding of the field and become up-to-date with the most recent trends in information systems and technology. I intend to acquire a strong skill set by pursuing several exciting and challenging projects at your state-of-the-art research facilities. Being guided by accomplished faculty such as _____ and _____ at your premises will help me take my projects to the next level and acquire a more comprehensive understanding of the field.

My experiences in implementing concepts of machine learning for real world applications have given me a strong knowledge of my subjects, and I am confident that my aptitude and passion for integrating technology with business will help me stand out at your campus.