

## **STATEMENT OF PURPOSE**

I strongly believe that academic proficiency should be well coincide with an overall personality development. In recent years, the advanced technology has become rapidly integrated across once restricting borders, and anyone with high goals in the computer science world must have an international perspective and be aware of the realities of distinct international arenas. Knowledge acquired from theory is fruitless unless applied practically. I belong to the field of computers, which had been the dream I had, the obsession in me and the long-term desire that had remained in me for a long while. And finally, when I got into this, I always tried to give best of mine.

I have been always curious about computers and gadgets. I got an opportunity to study computer courses in my school. My teacher used to write some lines of code on the board and when I typed it on a computer, it returned different shapes like pentagon, hexagon and star. I was fascinated by the way the computer operates. It increased my inclination towards computers. I still remember, in 9<sup>th</sup> grade, a teacher gave me a task to make Dino Game through C programming. I spent one week to develop a game and successfully completed a task. This was my first encounter with any computer application.

After completing my 12<sup>th</sup> grade, I found a wide range of opportunities in the field of computer science. My grades in science stream helped me to get a seat in an esteemed and prestigious institute, Sardar Vallabhbhai Patel Institute of Technology (SVIT) for further education in Information Technology. The courses covered here gave me fundamental knowledge of Software Designing, Hardware Development, Mathematical skills and Personality Development. Lectures delivered by Professor Nisha Shah attracted me to Data Mining and Business Intelligence. This led me to secure CGPA 9.51 at the scale of 10 in my undergraduate study. Academically, I am among the top 2% of students of my institute and I determine to pursue this performance in my future endeavors. Not only did my undergraduate degree provide a firm foundation for further study in computer science, but my academic success was recognized by the “Shri Devang Mehta IT Awards”.

During the first year of my undergraduate study, I got a marvelous opportunity to present a seminar, which was a part of my curricula. This was a very distinctive and gratifying experience. This exposure gave me a reasonable amount of confidence in my communication skills and the ability to explain things precisely. It also taught me how to give a presentation. Apart from my academic curriculum, I also got involved in learning implementation techniques of the theoretical aspects of subjects from web-resources and experienced faculties from an institution. My interest for research work in computer science stems from a natural aptitude for logic and mathematics. I made a small attempt to write a paper on “**Cloud Based Housing Society Management System**” which got selected and published in International Journal of Computer Applications (IJCA). I am continuing the research this year, implementing various other modules to make a flawless system. For this study, I carefully studied all the existing theories related to the subject. I further found a topic of research and made a prototype of the system with new ideas.

## Tirth Bharatbhai Shah ~ MEng Computer Science ~ Fall 2019

My interest and enthusiasm in computer science have motivated me to take major and minor projects both out my own interest and also as a part of my undergraduate course. Recently, I developed a system named "CASA ALLIANCE". The project helped me to gain experience in advanced computer science fields such as machine learning and artificial intelligence. During the development of this project, I achieved a remarkable understanding of Django framework (Python). In addition, I utilized the concepts of Artificial Intelligence efficiently in the module of property tracker also deploy various libraries like numpy, scikit-learn and 2checkout. Persistent efforts and fundamental knowledge in technical aspects helped me to get over of all the hurdles. These projects were the watershed moment in my life. I acquired the confidence in myself that with attention to details, I can accomplish my future academic ambitions.

While studying information technology, I was keen to gain work experience in logical aspects of advanced technology and this was achieved during my internship. This year I got an opportunity to intern for the Confidosoft Solutions Pvt Ltd. I consider my internship as a very fruitful experience. I was a Web Developer intern and learned in every minute of it. My practical experience there was predominately focused on the development of user modules. My internship at Confidosoft has taught me more than I could have imagined. Importantly my internship was an excellent opportunity to convert theoretical knowledge into practice. I gained valuable insight into the world of business and the inner workings of tech companies and even developed some advance modules integrated with regression analysis and statistical models. My internship has definitely gave me a finer understanding of my skill set and where my career may take me.

Apart from having the academic ability, I was actively involved in extra-curricular activities and sports, right from my schooling. During undergraduate studies, I organized various technical and non-technical events in PRAKARSH'18 and VISION'17, a National Level Technical Symposium recognized by Indian Society for Technical Education. It gave me an opportunity to develop leadership qualities and also it trained me to handle tough situations without taking stress and agitation. This role taught me that self-reliance is the basis of good work and helped me learn how to take praise and criticism positively. Also, I participated in a fundraising event for the education of poor children held at my college which gave me an immense pleasure for working in the welfare of others.

I would like to quench my knowledge thirst and gain in-depth knowledge in areas of machine learning theories, data science and their applications. My ambition is to work in the field of machine learning, pattern reorganization and data mining. I am sure that the highly acclaimed graduate program at your good university will help me to fulfill my ambition. Given chance to me, I would also like to extend my gratitude by offering my candidature for any kind of research, teaching and project assistantship. Completing my graduate studies, I would also like to endorse my contribution in my field to my university and would also like to be active alumni of our university and work towards the development of our university as well.