**Statement of Purpose**

There are various factors by which a person can be classified into the particular strata of society that he or she belongs to. I would prioritize education as the most essential component in distinguishing individuals according to their capabilities. I believe that attaining education from a University, which not only fulfills our academic aspirations, but helps us evolve as an individual is really crucial. For gaining this overall know-how on one’s field of study, he or she must have the adequate amount of zeal, and should be curious towards learning new concepts. The desire to receive in-depth knowledge of the subjects that a student wishes to specialize in, is the first and the foremost quality which drives a person towards success in his or her arena. From my childhood, one of the traits which motivated me all throughout my scholastic journey was my undeterred fervor, and my zest to know about all that was happening around me, right from my early school days. My interest, passion, dedication in every piece of work I perform enabled me to acquire significant knowledge on various aspects of nature and technology, as well as leading me through a successful educational career.

With my eyes clearly set on my goals, I took up mathematics during my senior years at school. My teachers and parents had always encouraged me to think beyond the curriculum taught at school, and thus this propelled my thoughts towards the subjects that I liked most. I excelled in academics, secured 87.60% and 64.86% in my 10th and 12th Board Exams respectively, and was among the top three in 10th standard. I have consistently been allured towards subjects that draw upon one’s analytical abilities. Hence, Mathematics was my beloved subject.

After my schooling, it was high time that I had to choose a major for the higher secondary education i.e. I had to opt for either Engineering or Medicine. My intense interest in mathematics, and penchant nature towards the latest technologies available in the market made me choose Engineering. A natural aptitude for mathematics, a sense of logic, good grades, high academic credentials and a good rank in regional level examination among 100,000 people, secured me a place in Gandhi Institute of Engineering and Technology, which comes under Biju Patnaik University of Technology. Accredited as an ‘A’ grade college by the National Assessment and Accreditation Council, as well as from NBA (National Board of Accreditation (AICTE)), a Top University in the neighboring state, our college is ranked among the top 10 college in eastern India. Having chosen Electronic and Communication Engineering as my major, the college has provided me with a wide range of opportunity to enhance my theoretical and practical skills.

As Edsger Dijkstra rightly said “Computer science is no more about computers than astronomy is about telescopes”. In today’s age of information, having knowledge of electronics and communication, together with computer science in a meaningful and in-depth manner is of great advantage. For example, it is not the case that computer scientists program and electronic engineers design, but rather that both hardware and software must be co designed, if they are to produce an efficient useful system, Electronic and Communication Engineering provides the designs and working of various electronic gadgets using microcontrollers, microprocessors. While the study of Computer Science gives both the theoretical and practical abilities to reason about and develop solutions to a problem, having a thorough knowledge in Computer Science will allow me to take an idea from conception, all the way through a concrete implementation, balancing various requirements. I visualized the beauty of computer science and engineering in my undergraduate course after dealing with subjects such as C, C++, Java, Database Management Systems and Operating Systems to name some. To be able to face the competition, I kept myself abreast with the latest technologies by reading magazines, attending workshops, and participating in various training programs like Dot Net, SQL/PLSQL.

I feel that the prerequisite of a research oriented student is his or her ability of problem solving, and to perform independent research work under the guidance of an advisor. My final year project in my Bachelor’s Degree, gave me such an opportunity, wherein I worked on a project “Automatic Temperature Control System” using IBM DB2, IBM Rational Rhapsody simulation software under the esteemed guidance of Mr.Shubhrajit Pradhan, Head of the Department. The project dealt with the designing of Software that analyzed data from sensors, and accordingly maintained the temperature. The system can be used in places like living rooms, vehicles and in factories. The project has improved my understanding of the concepts in a practical and constructive manner. Our work was greatly appreciated by the professors and our peers alike. I received an overall percentage of 82.60 in my Undergraduate Degree.

Pursuing a Master’s Degree was always a precondition for attaining my professional goals. Under the Campus Recruitment Drives conducted at Gandhi Institute of Engineering and Technology; I was placed in Tata Consultancy Services, the world leader in IT consulting and Software Services. I attended campus recruitment training and various other courses to brush my knowledge and strengthen my grip on the concepts. My hard work for getting placed has sharpened my programming skills in PHP, JavaScript, Angular, Node JS, UNIX, SQL, NoSQL and Mobile application Development. I have also worked on frameworks like MOODLE and Angular 2.0 with typescript. My interest towards web and mobile application development inspires me to dive into new technologies coming into the market. I also have started learning a few of those by implementing the same in my own projects.

I also participated in various school level cultural programs like dramatics, storytelling, singing, mimicry. I had also represented my school in regional level dramatics competition twice, as well as participated in the school level mathematics Olympiad and youth congress. I organized my college technical fest “Science and Tech Expo – 2k13”, and also participated in electronic chess. I have also donated blood for a cause twice.

Germany, the Country, its language and educational quality are the biggest inspiration behind my interest of doing Master’s there. People believe that Germany is the heart of Europe, and a very diverse country to live in. Around 12-15% of foreign students come to study there. German is one of top ten most spoken languages in the world, and I would love to have a foreign language in my kit. German higher education is one of the best in the world. Whether it’s cars or education, people everywhere recognize “Made in Germany” as a seal of quality.

I thank you for this opportunity to express myself, through this statement which is my earnest purpose for pursuit of Academic Excellence. All the details stated above bear the testimony of my life and ambitions in brief, but the broader perspective of it is beyond the limits of this statement**.** The esteemed Technical University of Munich holds the key to my future, and I am fully convinced that it would be a great experience to study here. The state of the art facilities, eminent faculty, and the research work that is being done in the domain of my choice, has certainly lured me towards your revered Institution.

I look forward to being a part of the graduate program at your prestigious University. I assure you, that, I will be unsparing in my efforts, to scale academic heights, bringing laurels to your renowned institution, which I feel is the most ideal for me to pursue my graduate studies. I intend to follow this up with a Ph.D., which would help to build up my career in the field of research and entrepreneurship. I hope my profile suits the University, and the projects that I have done make me a prospective candidate for an admission in your distinguished University.

**JYOTIRMAY SENAPATI**