**STATEMENT OF PURPOSE**

**“To succeed in your mission, you must have single-minded devotion to your goal.”**

–A.P.J. Abdul Kalam

The above-stated quote is something that I firmly believe in. To be successful in our purpose, we must have a clear picture of the end result. A single-minded enthusiasm for the aim is also required. Since my schooling, my keen interest has always been in computers. Even today, I recall some of my cozy school time memories, such as waiting to utilize the computer lab. At the time of high school, as a part of my curriculum, where I had a course **“Programming with C”.** In that course, a set of basic problem statements were given and our teacher taught us how to solve them. That is when I gained an interest in programming and algorithms. Aside from the course material. I felt this was an opportunity to explore the computer world, which piqued my interest in pursuing a career in computer science and engineering.

During my bachelor’s degree program in the Computer Science and Engineering department at **CMR Technical Campus,** **UGC Autonomous Engineering College**, with excellent infrastructure, labs, and faculty that emphasized fundamental concepts. I benefited from my college course curriculum, which exposed me to a wide spectrum of Computer Science fundamentals. Additionally, I received guidance from our college faculty where I was introduced to the programming languages like **JAVA, PYTHON, and C++.** My urge to learn more about computers has progressively grown over time. My innate curiosity in computer science led me to grow a strong desire to work on a variety of projects. One of my professors suggested attending a workshop at **“IIT Hyderabad”** on **“Python Programming”,** from which I clarified numerous queries. Furthermore, I enrolled in **“The Joy of Computing in Python''** and **“Big Data Computing”** courses, offered by **NPTEL(National Programme on Technology Enhanced Learning)** which helped me understand the implementation in the real world. During the summer break, I enrolled for the course **“AI for Everyone”** authorized by **DeepLearning.AI** and I also worked at **Knowledge Solutions India** for 6 weeks as an intern on **Machine Learning using AI using Python** and successfully finished a project on Payment Fraud Detection.

With the intense course work, I always had various queries regarding how the data was safeguarded all around the world. That is when I was offered an internship by **“Verzeo”** in the **Cyber security** domain. In the beginning, I received explicit training for a few weeks. Later, I was allocated to live projects in which I worked on real-world issues. I also had the chance to explore and learn **web-based technologies** and other domains like **Operating Systems, Database Management Systems, Computer Networks, and Design and Analysis of algorithms.** The development field has caught my attention. I started to work on the front end of the websites with the help of **HTML, CSS, and JavaScript** languages. I attended HTML training conducted by a **Spoken Tutorial project at IIT Bombay**. As my curriculum included “**Web Development”,** it indeed helped me to acquire theoretical knowledge and implement real-time projects. In my final year, I worked on Android Mobile Application Development and interned with the company **RentEra**. At the end of my internship, I developed an application titled **“MedDocs”** in Java and worked on the backend with Firebase.

I also participated in a Hackathon named **Toycathon**, an inter-ministerial initiative organized by the Ministry of Education's Innovation Cell with support from the All India Council. In this competition, as a team, we created a simple game specifically for youngsters to help them grasp how farming is done methodically. It was also a huge honor for us to be chosen for the final round and to display our model to the respected government representatives.

I believe that hard work is an essential element in tracking down and perfecting a strategy and executing it. As a result, for the first three years of the course, I was awarded the **“Academic Excellence”** as **First Ranker** in **Bachelor of Technology** from **Computer Science and Engineering** in my graduation.

At present, I’m developing an Android application named **“Andro Doctor”** with advanced technologies which include effective Machine Learning and Deep Learning algorithms. I began my project by determining which sectors demand the most software assistance; I later opted to work in the Health sector. This project's major goal is for women to conveniently track their periods and forecast other ailments such as skin, hair, and diabetes difficulties. It also assists people in virtually resolving their issues and gives drugs.

As a freshman, I’ve been chosen as the class representative, which is a tremendous responsibility and a challenging role for me. Apart from that, I am a member of the Lexis Club, which coordinates activities, contests, and interactions with young people. Participating in such competitions helped me to enhance my public speaking abilities and shape me into an extrovert.

My professors observed my keenness toward technology and development. Subsequently, I was selected as Vice-President of the **“Computer Society of India”** for my college. It is an international student chapter in my college, which organizes various events and workshops on upcoming technologies and encourages students to present their ideas on problem statements. Being involved in these activities enabled me to interact with miscellaneous influencers and helped me to think in the righteous direction.

I believe the next logical step for my career growth is Data Science. I want to learn the techniques to develop advanced algorithms along with the advanced statistical techniques that would help me analyze the data to extract valuable information and solve greater business problems. I strongly believe that I have an adequately demonstrated experience with computer science, software engineering, and the application domains. However, I need to further my knowledge on advanced statistics and multi-disciplinary theories & skills which I hope to learn during my MS in Data Science program.

I am applying to the **University of Houston** after a thorough analysis of the curriculum. The most crucial reason for my interest is, to get a USA qualification. Learning from a Carnegie-designated Tier One research university is a definite advantage to further my career. Given the complexity of the subject that I intend to study, education & input from an ethnically diverse research institution in the US would be the greatest advantage. Learning from World’s renowned and highly qualified faculty is one advantage I cannot afford to miss.

Since the advanced teaching methods and practical training are unique, I believe that being a student at this University would not only empower my career development but also give me a chance to utilize my full potential. I strongly believe that the right education in the right school will open doors of advancement in my career.

I strongly believe that your university provides me with a great opportunity to enhance my undergraduate skills. I chose to apply for a **master's degree in Data Science** because I consider the course structure to be the most engaging. The carefully crafted course curriculum at this university is a perfect fit for my learning style since it gives me a chance to flourish in the Data Science topics that I am most interested in learning about while also giving me a chance to explore other topics that I may find interesting.

I'm looking forward to joining your esteemed university.

Thanks & Regards,

**SAI KEERTHANA TODUPUNOORI**