STATEMENT OF PURPOSE

"A computer is an electrical machine that stores, retrieves, and manipulates information according to the user's commands." Ever since I learned this definition, I have been fascinated by computers. Paint by Microsoft was the first program I ever used on a computer. I was intrigued by how everything could be done with a single mouse click. I began exploring it anytime I had the opportunity after that, and I was hell-bent on figuring out how everything interacted and worked within a computer. After extensively researching about the field and my curiosity towards the exploration of the technology, I concluded that pursuing a MS Program in Computer Science will be instrumental in enhancing my knowledge and skill set.

I have pursued a Master of Technology in Software Engineering (5year -Integrated course) at **VIT University**, one of the most prominent colleges in the country. This course made me realize that every real-world problem needs to be tackled in a different way and these technical solutions are solved in a way to make things easier for people all around the globe. During my undergraduate studies, I have not only completed my coursework with diligence, but I have also researched the course by taking part in technical projects that will help me to obtain a deeper understanding of the role and real purpose.

To elaborate further, A holistic view of computers was formed when I studied courses like C, C++, Python, Data Structures that were part of our curriculum. I built my strong fundamentals by taking up real-world scenarios to present as projects and implementing the solution. I took up a project called "Performance Analysis of Movie Rating System Using Data Mining Techniques" to familiarize myself with supervised and unsupervised learning methods on unstructured data, in which I employed the Random Forest algorithm and regression techniques. This favored me to gain more knowledge and work on projects related to Machine Learning, Database Management Systems, etc.

During my final year, as part of the final project, I Interned at **Ingersoll Rand** where I developed a **Data Analysis & Visualization** application. I was part of the Data Science Team for 6 Months where I developed a Operations management which helps leaders to yearly & monthly KPI metrics which minimize human effort and time. Additionally, it can be used for other purposes such as simple check-list monitoring. This System served the company by saving time per week. During the Internship, I have gained ample knowledge on SQL, Python, Tableau, and AWS Cloud-related concepts which gave me a vast overview of cloud architecture and Database schema as well.

My first job as a Software Engineer at **Trane Technologies** provided me ample opportunity to engage and utilize my skills in the best possible way. I have worked on Internal projects where I worked on technical developments and enhancements by understanding the business and solution requirements. I have mastered various web technologies such as Python Programming, JSON Query Language and worked on tools like Visual Studio, GitHub,

and Jupyter. I was also trained in Agile and DevOps Methodologies which plays an instrumental role while working on projects. To add more, I have been part of an English-Speaking Club called Toastmasters International where I have been awarded the designations of 'Competent Leader', and 'Competent Communicator'.

All the projects and experiences I had during my undergraduate studies paved the way to choice of doing Computer Science graduate study path. The dream to be a part of **University of Missouri-Kansas city,** roots back to the time when I was researching through courses, Profiles of professors published on the **University of Missouri-Kansas city** website and popular websites such as US News and Times Higher Education. Hearing about the university culture and its intense curriculum from the alumni imbibed interest in me to pursue master's in Computer Science from the **University of Missouri-Kansas city**. In the near future, I would like to pursue PhD in the field of Artificial Intelligence. I believe that university with its rich blend of competent faculty and state of art laboratories would be the ideal place to help me reach my goals.

As I have stated, we are in the midst of a technological revolution, and software will play a key role in that transformation. The road ahead promises to be difficult, it will undoubtedly be laborious and demanding at times, but the sense of fulfillment that comes from contributing, no matter how small, is unsurpassed. If given, an opportunity, I would put my earnest efforts into raising the university's standards and contributing to the department's research and projects. I hope for an opportunity to be part of your institution and learn, grow as a member of your student community.

Thank you for spending your valuable time considering my application.

Abbavaram Pavani