

I am Himavanth Reddy, backed by long-term aspirations and an inner urge to do a research-oriented master's degree in the UK, I hereby pen down my statement of purpose.

My love for computer science started when I was in my school days. I had a strong inclination to analytics and particularly had a great affinity to do a course that can predict business and take the world to a different state. It was an urge in my mind to find a course related to prediction. While I was having a conversation with one of my lecturers, I got the answer for my search and further, she explained how artificial intelligence works and its integration with data science. Moreover, I surfed the net to collect more ideas and came to a strong conclusion to pursue master's in computer science. I happened to have a discussion with my brother and he explained in detail how data science could predict even flu outbreaks by tracking location data. From then on, my aspiration grew to greater heights and it transformed into a love for data science.

Moreover, my career objectives are not childhood dreams but rather a work of consistent absorption of awareness and learning about my interest domain. It was all about finding my path and the journey started with my curiosity about computer science. My inherent strengths have been my quantitative and analytical abilities, which instilled in me a special interest in mathematics.

Growing curiosity and a normal penchant for science and numbers saw me opting for computer science for my under-graduation at GITAM university. I wanted to muster more knowledge in my field of study and did a certification program in Python and data structures and the learning outcome gave me the hands-on experience of writing codes with varied outputs. I wanted to enhance my technical know-how at every opportunity, hence doing a certification in cloud computing basics to hone my technical skills.

A transition occurred in my mind to do a master's in computer science, and from then started my understanding of the domain which slowly and gradually grew into admiration and then a strong passion for programming languages. Hence, I did a project titled handwritten optical character recognition. Handwritten documents in human transactions have become a cumbersome business and the resolvable solution is optical character recognition which helps to translate different types of documents into analyzable, editable, and searchable data. I have used the deep learning technique which copies the working of the human brain and moreover, the development of machine learning and deep learning has paved the way to develop algorithms and techniques for recognizing handwritten manuscripts. I used CNN-based architecture which is apt recognition tasks where the input is an image.

Out of the desire to work on a research problem, I did my major project in the Central blood bank management system using Python Django Framework to develop the website. The main objective of the project is to maintain all information pertaining to blood donors and also about different blood groups available in blood banks to be managed in a precise way. This project has got a lot of future prospects as blood donation becomes automated and anyone can donate to the correct donor at the right time. It gives the exact location of the donor and I used Customer relationship management to retrieve data on the donors. This application is time-saving and it provides cost reduction moreover, appointments can be fixed online but not manually.

I did a summer internship entitled Machine learning foundations-A case study approach. I learned a lot in this internship and understood that machine learning can be supervised or

unsupervised and for a lesser amount of data, the best option would be supervised learning. Unsupervised learning gives better performance and produces good results for large data sets. If a huge data set is available, then deep learning opts. I honed my practical applications and hands-on experience through this internship program. And it was a breakthrough to do my master's as it paved the way to understand and patch the gap between theoretical and practical knowledge.

After obtaining the required skill sets by pursuing a master's in a diversified country like yours, I strongly envision that I will contribute the best to do unique applications in computer science. In the future, I want to do research in computer science and contribute my level best to society. By studying in a highly developed nation like yours, I'll be able to augment my knowledge with opportunities of getting exposure to the latest advancements taking place around the world.

I always balanced my academics with extra-curricular activities. I have participated in the Lavz-o-phia fest conducted by GITAM university. Apart from this, I am passionate about acting and acting in short films. I have been involved in social responsibility activities and donated rice bags to the poor through a non-profit organization.

Your prestigious university offers the best courses related to Computer Sciences, which will be an honor for me to join. Moreover, the pivotal reason is that the course curriculum is research-based with internship and hands-on experience. Apart from this, your university has various academic opportunities as well as the latest developed technologies. There were many factors, which led me to believe that the field of computer science was the ultimate choice for my career, but obviously, with computers

being so omnipresent, I would stand out from the crowd and have a start-up and intellectually and want to represent this community. It is this challenge, the need to be ever more flexible and innovative that ultimately made me take a decision

Master’s in the UK will surely give a diversified exposure to varying levels of learning. I have realized that in the current scenario where innovation and changes are the order of the day, I need to have the necessary technical skills to analyze a scientific situation from different perspectives to create a solution. The attainment of a master’s degree in a vibrant country such as the UK, would offer maximum value addition to my skills and enhance my opportunities in the marketplace. Thus, I made up my mind to continue my further studies in your country.

Moreover, the course curriculum in your university extensively covers multifarious topics from varied perspectives like computational, organizational, and analytical aspects of data. Furthermore, it provides foundation units in databases, programming, and statistics.

I am sure that presented with an opportunity, I will blend my skills with university facilities to bring about novel techniques and technology in data science. I am self-motivated, patient, and diligent and have the proclivity to explore new technologies. I feel getting an opportunity in pursuing Masters in your esteemed university would be a great milestone for success.