**STATEMENT OF PURPOSE**

The world of business has seen, in the last decade, transformation of a kind that has been unprecedented. When I became a cryptocurrencies aficionado some time ago and began trying to predict their future, I dived deep into this trend and began appreciating how data-driven insights have helped businesses streamline their operations, achieve skyrocketing profits, and grow at a great pace. Having meticulously analyzed how data can shape the future and appreciated my potential and abilities for contributing to the growth trajectories of organizations worldwide, I believe that this is the perfect time to take this leap to thoroughly understand all the facets of data science, and without a doubt, in the direction, this program with your university is a natural step forward.

While my passion for data science is not very old, my interest in computing, mathematics and technology goes back to the days of schooling. It is exactly what led me to choose to go for an undergraduate program in computer science and engineering. This was a program that helped me relish learning the subjects I had been wanting to read in depth. I easily progressed to developing a fine command over Python programming, artificial intelligence etc. I also went on become acquainted with cloud computing, full stack development, cyber security, and ethical hacking etc.

During the undergraduate program, I was a part of a series of academic and extracurricular activities with which I not only widened my knowledge base but built substantially upon my skillsets. Significant ones of these were the projects I worked on. One of these as a project on building a hybrid movie recommendation system. As part of this, regression and clustering algorithms were used to map the content and collaborative methods of filtering to come up with a hybrid filtering method that could make more personalized recommendations. The metadata which the system was based on included the top three actors, the director, related genres and the movie plot keywords.

Given how illuminating working on the above project was, I am fervently contemplating across ideas for another project which will concern deep learning with neural networks. I am also enthusiastic about a dream project which will involve building a cryptocurrency token based on which transactions may be verified without using internet. I have also been contemplating building a low code Python cloud platform that will contain the program, in addition to showing the parameters and variables in the module. The remarkable attribute of this project will be that if a user intends to create an app or a website using the Python framework or undertake computation, the requisite data will be available as modules which can be easily imported.

My final year project involves optical character recognition. The idea is to be able to build a website that enables manual uploading of an image in various languages. Post the uploading, the designed system shall recognize the characters and autocorrect the spelling mistakes simultaneously. This will be followed by a conversion of the item into a digital format and a download of the same in the PDF format. In this project, I also intend to use cloud technologies to enhance the user experience.

With my unswerving fascination with data science, I went on to undertake an intensive internship as a Data Analyst Intern with Jman Group. This internship helped me build upon my knowledge of various statistical methods, identification of issues in data and monitoring of existing metrics. In addition to improving my proficiency in Tableau and PowerBi, I learned to supervise data engineering resources to propel new projects on product development. As part of this internship itself, I undertook a project concerning prediction of car prices. Utilizing historic prices, it contemplated the prediction of prices of cars for the upcoming and new companies in the future. To add, I was involved in analyzing SAP transactions to build a logical BI model for real-time reporting needs, coordinating statistical data analysis and information flow, and applying statistical and algebraic techniques to interpret key points from gathered data. The stint also strengthened my fundamentals in machine learning, in addition to enabling me to learn about DevOps and the importance of data engineering.

Among the many participations that enhanced my skillsets substantially were my paper presentations at a national level symposium titled Technocrats and a conference on emerging trends in computer technology. I also undertook certain Coursera professional certification programs including those on data engineering, big data and machine learning, Google IT automation with Python, and one on professional collaboration engineering for workspace by Google. Some other specializations I pursued from Coursera include those on deep learning, TensorFlow developer by DeepLearning.AI, Introduction to data science by IBM, applied data science with Python, scripting in Python, and Excel to MySQL: Analytic Techniques for Business and full-stack web development with React. Among my finest achievements was winning a scholarship for the Udacity Bertelsmann Data Track Nano Degree Program as a part of which I was given the chance to be a part of the Predictive Analytics for Business Nanodegree Program for six months. I completed this nanodegree program successfully.

To add to the above, I am proud of having actively involved myself in other endeavors for upskilling myself. Amongst others, I have been preparing for the German A1 examination for which I am pursuing classes offered by Goethe Institute and successfully completed the course. Having studied French for two years in school and finished all the examinations in Hindi, I am confident about having a fair command over these, and also look forward to build my command over German. At the same time, I am passionate about swimming, fitness and several social activities concerning giving back to the society. All of these have helped in the overall development of my personality substantially.

All of the above have been experiences that, in all honesty, have multiplied by several times for thrilling for going into the depths of data science. At this stage, I am immensely driven, self-motivated and inspired to pursue a journey that will help me comprehensively understand the variety of applications of data mining, deep learning and all the other sub-disciplines of data science which, certainly, will shape the future of several industries in the time to come. With this mindset, I would like to pursue this coveted program with your university.

After immense research, I have chosen your university for this exceptional program. Among other aspects, it will allow me to meticulously appreciate the variety of recent developments concerning big data, the changing applications of algorithms, and how analytics is being used for advanced predictive modeling. It will also help me mastering the fine nuances of the subjects of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ which I am exceptionally interested in, and with a great grasp on them, certainly, I will be prepared to work with the very best in this field.

It will help me build a good grasp over the software frameworks being used for data processing in various industrial sectors, apart from exposing me to how various models are designed using several types of analytical methods. I have been amazed by this program’s widened focus on practice over theory, and it’s focus on ensuring that candidates develop industry-relevant skillsets. Of learning in the abovementioned directions with some of the best faculties from across the globe will, certainly, be an outstanding experience. Undoubtedly, the learning will prepare me to work with industry giants such as JP Morgan and Goldman Sachs, and contribute to the growth of organizations worldwide in an effective manner.

Indisputably, given an opportunity to pursue this program, I will make the most of the same to emerge as one of the finest professionals your institution has ever produced. With much enthusiasm, I look forward to joining your university – for the MS in Data Science program!

**MORRIS DARREN B**