Dear Members of the Admission Committee,

Initially fascinated with the field of information systems, I delved into its intricacies during my first year of college. However, as I continued, a deeper passion for understanding the hidden stories within data tugged at me. A pivotal moment came during introductory data science course that ignited my passion for data science. There, through a project analyzing the Titanic survival rate, I experienced the relevance of extracting hidden patterns and meaningful information from raw data. This revelation spurred a bold decision – a midstream transfer into the data science program. After transferring I developed a strong understanding in statistics, machine learning, and data analysis. My previous studies in information systems also provided a foundational understanding of Data flow and programming skills, which became an invaluable asset in my new path. The University of New Haven master's program in data science and analytics seems like the perfect next step to further explore and refine my skills.

Natural language processing (NLP) is the foundation of my academic interests, and I specifically focus on its uses in forensics and healthcare departments. My passion is to figure out more rigorously, how to best use NLP to improve patient outcomes by carefully examining electronic health records (EHRs) and finding patterns that can help improve decision-making.

Moreover, I have recently submitted a paper to the CODIT24 conference, which is currently under review. The study aims to predict users' religious and social belief affiliations based on 'OkCupid profiles 2012 dataset' and unravel the potential impact of religion on relationship dynamics. Aiming to publish these findings, my goal is to further this research at your university, the goal is to incorporate data mining to identify patterns and trends that might not be at once apparent to the human eye and gain a deeper understanding of the role of

religion in shaping successful relationships.

Apart from healthcare, I am also enthusiastic about pursuing interdisciplinary projects in data science, IoT, and robotics for wireless communications. This inspiration also extends to my interest in creating an interactive VR flight simulation to aid children with autism, a project that resonates with Professor Adriana Sula's research on a "Smart environment for supporting children with Autism". Working under her mentorship would not only deepen my understanding of ML and HCI concepts but also support my aspiration to contribute meaningful technological solutions to real-world problems.

Currently working as a Teaching Assistant at the University of Doha for Science and Technology, I have garnered invaluable experiences that align seamlessly with the responsibilities outlined for a Teaching Assistantship. In this role, I actively helped with the instructions of data science courses, aiding in the preparation of course materials, and providing guidance to students. This experience has sharpened my communication skills, enhanced my grasp of intricate concepts, and strengthened my aptitude for mentoring. While grappling with time management in the past, I have proactively addressed this challenge by implementing a robust task prioritization system. I have become adept at delegation and am now comfortable seeking help when needed.

In conclusion, the combination of my educational background and work experience prepares me as a candidate who is knowledgeable about the theoretical underpinnings of data science and possesses the practical abilities necessary for success in the field. I am confident that the program at this University will serve as the optimal crucible for further refining and augmenting these attributes.