

Dear Sir/ Madam,

Strictly in accordance with what Alvin Toffler stated in “The Third Wave”, the present age is a quantum jump in history during which life patterns have quite changed, including power patterns. I believe that being an expert in (mathematics/computer science), Which is the indispensable part of technology advancements and the basic requirement of the fourth industrial revolution elements, is a sensible way to become powerful. As a bachelor’s graduate in mathematics and applications, I am currently resolved to pursue a master’s degree in (mathematics/computer science). I consider it as the most objective approach for me to get integrated with the modern trends in this promising field, to consolidate my previous knowledge, and to conduct my desired research. This is the best path to follow for me as it triggers my career success and enables me to fulfill my social responsibility through being a part of (mathematics/computer science) evolution and providing new ideas. I am convinced that my background has well prepared me to meet the rigor of your demanding program. In the following, I will explain my record of studies besides the reasons for my strong penchant for this field and my professional goals.

My childhood coincided with impressive advancements in computer technologies and the advent of modern gadgets. Operating with computers and the way computers allow me to leverage my brain have always appealed to me. I think that my ardent desire for (mathematics/computer science) stemmed from my passion for working with complex machines and solving problems. My curiosity for understanding the mathematical model of software systems made me captivated by mathematics and nudged me toward studying this field at university. So, I attended a bachelor’s degree program in mathematics and applications at Damghan University in my homeland, Iran.

The undergraduate program provided me with invaluable insights regarding numerical analysis, partial differential equations, design and analysis of algorithms, and discrete applied mathematics. I also gained proficiency in using Matlab, C++, Python, and AutoCAD over the program. Throughout class projects, I developed my communication, teamwork, and management skills, that would assist me with having a decent performance at higher levels. Unfortunately, some obstacles, especially personal problems as well as overlapping of my courses, made me complete my bachelor's program two years longer than the conventional four years and also caused my grades to drop. However, I back to my senses and managed to cope with challenges through hardworking and focusing on my studies which improved my grades over the final years. It is worth mentioning that following my interest in artificial intelligence and data science, I self-studied some books and online articles about these subjects alongside studying my university courses. This period of self-study occupied my mind with some interdisciplinary ideas about mathematics, AI, and data analysis.

At the moment, I am intent on furthering my studies at higher levels as I believe that natural selection invokes even in the professional context. As in nature, those species that are most adaptable to change survive, in the professional environment only those who can adapt to today's ever-changing world will thrive. Considering the increasing demand for using artificial intelligence and data science skills, having applied knowledge of (mathematics/computer science) is assuredly a perfect platform for me to create my niche in this area. This attitude has distilled an impulse in me to expand my expertise in the versatile and in-demand field of (mathematics/computer science) which will endow me with a lot of great job opportunities and a cutting edge over my competitors. I opt for studying abroad to take advantage of higher quality educational facilities and obtain a more reputed degree. I came to the conclusion that studying

abroad at a prestigious university is the most viable choice for me which enables me to see the world of (mathematics/computer science) from a more professional and more modern perspective.

My most important short-term goal is to cooperate with leading international technology companies. In the long run, I have a dream to run my own business in computer engineering and become a successful entrepreneur who creates job opportunities for the youth and the needy. Furthermore, attending a high-quality graduate program in a leading academic environment would provide me with the required facilities to examine innovative ideas in my mind and to put them into practice by carrying out research. In this regard, my main research interests are “mathematics application in machine learning”, “artificial intelligence algorithms” and “operation research and decision studies”. As my other long-term goal, I am inclined to further my studies at doctoral levels, be a part of advanced research projects, and work at the forefront of inventing new technologies which are in the best interest of society and organizations.

I got to know your department through its website and found that your master’s program fits in perfectly with my professional aims. Checking the program’s curriculum, I realized that your comprehensive well-structured curriculum is exactly in line with my interests and covers all the aspects related to my required knowledge. The strong community of world-leading academics focusing on (mathematics/computer science) at your department is exactly what I am looking for. I am impressed by the pleasant ambiance of your university and the synergetic relationship between the students and the faculty. Moreover, your admission requirements are convenient to be met by me. I believe that this program will expand my horizons and will assist me to gain the versatility needed to reach my full potential as a (mathematician/computer scientist). Considering the approach your university takes to my course, your state-of-the-art facilities, and the vast network between the alumni and the faculty members, I am confident about my choice. Moreover, given the presence of international students in your university, I will expose to diverse business, social, and global perspectives which gave me a broader world view.

I hope that the above-mentioned background and the scope of interests prove my competence and enthusiasm to study for this degree. I firmly contend that my abilities in mathematics and programming, are completely compatible with the requirements of this field. I would be grateful if I could have the opportunity to pursue my graduate studies at your university.

Kind regards,

Neda Ezzati