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Dear Sir or Madam,

Since my childhood, I have always been interested in books, encyclopedias, and learning new things, and I had a dream of becoming a researcher. Believing in education as an honorable path to build a better world for all humanity as a researcher, I tried ambitiously to improve my skills at school. During my studies in middle school, I came familiar with the concept of computer programming and got far from my first ambitions of doing research. After going to high school, I chose Mathematics and Physics as my major to become a computer engineer. As a result of my endeavors after receiving High School Diploma in Mathematics and Physics, I managed to achieve a rank of 71st among more than 50,000 participants of university entrance exam and became a student of Computer Engineering at the highest ranked university, Sharif University of Technology, in Iran.

In my first year of studying computer engineering, I focused on the practical aspects of this major. In the subsequent semester, I took Probability and Statistics as one of my courses and became familiar with theoretical, and not-discrete, facets of computer science. It was when I realized that I favor doing statistical work since they satisfy my two motives, computer, and mathematics, simultaneously, and broaden my horizons to think of becoming a researcher.

With this new perspective, I decided to take Data Analysis course, which gave me a quite good understanding of data and the information discovered from it. After my joining the team Fieldex, provided by Sharif University of Technology Student's Scientific Chapter, I worked on image classification and discovered many new algorithms and methods on machine-learning that helped me make a decision to devote my future academic life towards understanding them. Throughout my studies, I have worked with a variety of data science tools including R packages, TensorFlow, and Keras. And I have been trained in academic courses including Data Analysis, Probability and Statistics, and Linear Algebra. Theorems and Intuitions I acquired by studying the latter are priceless to me as they have introduced me to the theoretical phases of working on data, including working with dimensions and optimization problems, which are one of my interests in computer science. The more I study, the more eager I become. This is why I will be having Artificial Intelligence, Machine Learning, Bio-informatics, and Information Theory for the following semester as my courses, to help me gain a new perspective on all aspects of Data Science and figure out my what I want to work on through my Ph.D. studies. I have also studied some online courses, taking machine learning on coursera as an instance, that have helped me gain a deeper understanding of data science and its capabilities.

As a result of becoming more interested in working on data, I have recently joined the Information, Network, and Learning lab under the supervision of Dr.Mahdi Jafari Siavoshani. I am currently working on techniques to classify encrypted packets passing through the Internet. Having an experience of working in a research lab, I firmly believe that I will be able to cope with the requirements of your program.

Being determined on this path, I would love to continue my academic and professional career as a researcher on data science in Research and Development of a prestigious company, and working with Artificial Intelligence and Machine Learning team at EPFL will help me benefit

from a high-level educational infrastructure and satisfy my desire of becoming a researcher on novel scientific topics. I am of the opinion that serious research experience is needed before I start studying for Ph.D., and EPFL is such a place that I hope to join as an undergraduate student. In that line, it is quite evident that the experiences gained, both by the hands-on experience on topics of my interests and by the guidance of the leading experts in the area is very invaluable for me and my future endeavors. I am confident you will find my application as a worthwhile investment. My attendance at this summer program is a great opportunity for me, and I would highly appreciate being one of the selected participants.

Sincerely,

Aida Ramezani