

Motivation Letter

I am Arjun Khatiwada, writing this letter to express my motivation or to provide a brief introduction about my background to apply for the Degree program "Applied and Computational Mathematics" in University of Bergen. I have completed B.Sc. with "Mathematics Honors" from the Indian University "University of North Bengal" where I started getting into an amazing field of Mathematics and learned several topics like Linear Algebra, Abstract Algebra, Real Analysis, Calculus, Geometry, C++ for project work related to numerical methods, etc. After Bachelors, I finished "M.Sc. in Mathematics" from Tribhuvan University, Nepal, where I broaden my knowledge in the topics which I have covered in my Bachelors with additional topics like Topology, Combinatorial optimization, Differential Equations, PDE, Complex Analysis, Theory of numbers, etc.

Completion of M.Sc. degree gave me a little kick towards the field of applied mathematics because I started thinking more about the application aspect than the theoretical side though I was always fascinated by the application of Mathematics in ample of fields like Physics, Engineering, Computer Science, Health, Sport, etc. In the year 2017, I started working in "Deerwalk Sifal School" as Mathematics Instructor and later I was given an opportunity to be the "Head of Examination Department" from where I started getting my hands dirty using Python (Pandas) for extracting data from Google Sheet and to use different python module to perform different data analysis task required in my duty. Later, I completed the course named as "Data Science with Python" from local training institute after which I began to improve my data science skills and finished several courses with or without certificate and even participated in a few hackathons to polish my Data Science Skills.

After the completion of several trainings and hackathons for couple of years, I got an opportunity to work with an American company "Honeydata" as an associate data scientist for four months where I researched a lot about reinforcement learning as company's interest was to include reinforcement learning in email splitting task, a kind of recommender system. I had even completed the Coursera Course "Fundamentals of Reinforcement Learning", offered by "Alberta University", to assist in the project.

It has been a great time getting into the field but now, I am thinking not only to get into this field but to go for higher studies (Masters and PhD) and have higher academic qualifications for significant contributions to this field. If I get the opportunity to study in University of Bergen, I strongly believe that this program "Applied and Computational Mathematics" will give me in-depth knowledge, which I may have lacked as a Mathematics graduate, required in this field.

The Master program qualifies students to understand and develop mathematical models, methods, and algorithms for data organization and interpretation. They acquire knowledge from statistics, optimization, and different mathematical theories of data representation and apply it in a machine learning context. This program offers mathematics students the unique opportunity of applying their knowledge in practical aspects of data management.

After my graduation, I would have few options, either I will startup a company in Nepal which provides Data Solutions or I would go into the field of research or I will look for the position of Data Scientist in any renowned company around the globe.

Thank You,

Arjun Khatiwada