

Statement of Purpose

As an eager mind who loves to explore the future roles of Computer Science towards human life, I have a predilection to grab any opportunity that involves research regarding the burgeoning of it. Information retrieval, Medical Data Mining and Sentiment Analysis are significant applications of data mining those can make a real difference in human life. Being a very recent yet significant domain of Computer Science, this field has given me the impetus to pursue **Ph.D.** in this field. I believe graduate education in the department of Computer Science at Purdue University can provide me an everlasting experience that will be significant enough to sustain my passion as a researcher. Several years from now, I picture myself as a faculty in a reputed university or as an extensive researcher in organizations like Google, Microsoft or Facebook to make some break through research in this field.

The first step of my journey to be a computer science professional was getting admitted to the department of Computer Science and Engineering in Islamic University of Technology (IUT). A wide range of courses related to mathematics, statistics, Programming Languages and Computer Science have introduced me to a new world of science. I did my Bachelor's thesis on 'Rate Adaptation' in wireless networks. I developed a rate adaptation algorithm that outperformed most of the existing algorithms. During this time I got deeply involved in 'ns-3' simulator where I had to modify the kernel to incorporate my own algorithm. Later, my thesis was published in IUT Journal of Engineering and Technology.

Upon completion of my Bachelor's degree I was awarded with 'IUT GOLD MEDAL 2013' for securing 1st position in the department with a CGPA of 4.00 out of 4.00. After that I was offered to join as a lecturer at CSE department of IUT where I conducted several courses and labs like Mathematical and Statistical Analysis, RDBMS Programming, Artificial Intelligence and Expert Systems and Simulation Modeling and Performance Evaluation. In parallel to that I also pursued my Master's degree at IUT. My Master's thesis work is an extension of my Bachelor's thesis. I completed my Master's degree in November 2015 with a CGPA of 4.00 out of 4.00.

My interest in data mining grew from one of my Master's courses 'Data Warehousing and Mining'. Later on I discovered how important role it plays in day to day life of people when I went through some of the papers related to Medical Data Mining and Sentiment Analysis. From that realization, I started to co-supervise one undergraduate thesis group on the automatic prediction of diseases based on the user feedback and our manuscript is under preparation to be submitted to an international conference. And I am looking forward to exploring this field in my higher studies.

I believe, with the extensive and detailed course work, conglomeration of highly capable professors and avant-garde research facilities, Purdue University gives me the perfect platform to pursue Ph.D. and will help me to exercise and excel in my research endeavors.