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**Research Interests**    Machine Learning, Natural Language Processing, Artificial Intelligence, Information Retrieval, Data Science.

**Education**                Bachelor of Science (B.Sc.), Electrical and Electronic Engineering  
February 2011 – March 2016  
Bangladesh University of Engineering and Technology (BUET)  
CGPA: 3.23 out of 4.00

**Experience**              Research Engineer at Semion Inc. ([semion.ai](http://semion.ai))  
July 2016 – Present.

Semion is a Berkeley, California based startup exploring application of machine learning technologies.

- Developed a document classification and ranking system for a client working with legal documents
- Developed, tested and benchmarked document classification models with machine learning algorithms including: Logistic Regression, Support Vector Machines, Supervised Convolutional Neural Networks (CNN), Semi-supervised CNN.
- Developed systems for named entity recognition using Conditional Random Fields (CRF) algorithms.

**Key Projects**            1. Document Classification and Ranking with Convolutional Neural Networks  
Semion Inc., 2016

2. Exploring Power Signatures for Location Forensics of Media Recordings  
IEEE Signal Processing Cup 2016.

3. Electrical Event Detection from Transient Device Signatures  
Undergraduate Thesis, 2015 – 2016.

**Skills**                      **Programming:** Python, MATLAB, R, C, C++, Java, Embedded C, Arduino, JavaScript, PHP, Verilog, Assembly.

**Libraries and Frameworks:** Scikit-learn, NLTK, Tensorflow, Caffe.

**Software:** MATLAB, LaTeX, Proteus, Quartus, Power System Analysis Framework (PSAF), PSpice, Microsoft Visual Studio.

**Hardware:** Arduino, Raspberry Pi, AVR Microcontrollers.

**Relevant Courses** Computer Programming, Probability and Statistics, Numerical Techniques Laboratory, Digital Signal Processing, Machine Learning (Coursera/Stanford), Deep Learning (Udacity/ Google).

**Standardized Test Scores** Revised GRE: 333 out of 340 (Verbal Reasoning: 169, Quantitative Reasoning: 164, Analytical Writing: 4.5)

TOEFL: 119 out of 120 (Reading: 30, Listening: 30, Speaking: 29, Writing: 30)

**Referees** Dr. Mohammad Ariful Haque  
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