

# SYED MAHBUBUZ ZAMAN

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## Education

### Milestone College

Secondary School Certificate

2006 – 2013

GPA 5.00/5.00

### Notre Dame College

Higher Secondary Certificate

2014 – 2015

GPA 5.00/5.00

### BRAC University

Bachelor of Science in Computer Science and Engineering

Sep. 2016 – Jun. 2021

CGPA 3.49/4.00

## Research Interest

- Artificial Intelligence
- Computer Vision
- Machine Learning
- Neural Networks

## Technical Skills

**Languages:** Python, Java, C++, HTML/CSS, JavaScript, SQL

**Developer Tools:** VS Code, Net-beans, Android Studio, Anaconda, Arduino

**Frameworks:** Linux, GitHub, React, TensorFlow, Keras, Pandas, scikit-learn, pyTorch

## Projects

### Final Year Thesis Defence | *Python, Tensorflow, keras, numpy*

January 2021

- “Dynamic spam detection system and most relevant features identification using random weight network” 📄
- We designed a Neural Network for tackling the problem of spam classification using the enron dataset
- This was implemented by using Recurrent Neural Network models (LSTM, Bi-LSTM & GRU)

### Project for IEEE ICEPE 2019 | *Arduino*

March 2019

- **Smart Streetlight:** The proposed system is a cost effective method which uses IR sensor to detect motion of a passing car or person
- It helps to get rid problems of manual switching. The motion controlled LED consumes less energy and has a better lifespan than high energy consuming lamps.
- This project won the first prize in project showcase competition.

### IEEE Format University Project | *Hardware-based*

December 2019

- **Power Walker:** A device that generates electricity using piezoelectric transducer with pressure detection mechanism, that transforms human footsteps (kinetic energy) into electrical energy
- **Line Following Robot:** Created a line following robot from scratch that can be activated or deactivated remotely. Also, the speed of the robot moving forward or backwards could be controlled by an Android device using a Bluetooth module

## Publications

### Asia-Pacific Conference on Computer Science and Data Engineering

8-10 December 2021

CSDE'21

Brisbane, Australia

- “A Comparative Analysis of Optimizers in Recurrent Neural Networks for Text-based Classification”
- We bench-marked about 10 different optimizers on three different RNN models (Bi-GRU, Bi-LSTM and BRNN) on three different text-based dataset
- **Submission Status:** Conference attended waiting for publication.

### International Conference on Service Operations and Logistics, and Informatics

11-12 December 2021

2021 IEEE SOLI

Singapore

- M. M. Hasan, S. M. Zaman, M. A. Talukdar, A. Siddika and M. G. Rabiul Alam, “An Analysis of Machine Learning Algorithms and Deep Neural Networks for Email Spam Classification using Natural Language Processing,” 2021 IEEE International Conference on Service Operations and Logistics, and Informatics (SOLI), 2021, pp. 1-6, doi: 10.1109/SOLI54607.2021.9672398.

## References

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