

Md. Mustakin Alam

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EDUCATION

BRAC University

Bachelor of Science in Computer Science and Engineering

CGPA: **3.96/4**

Thesis: **Federated Ensemble-Learning for Transport Mode Detection
in Vehicular Edge Network**

Dhaka, Bangladesh

May 2019 – May 2023

BCIC College

Higher Secondary Certificate (HSC) in Science

GPA: **4.33/5**

Dhaka, Bangladesh

July 2016 – June 2018

BCIC College (School Section)

Secondary School Certificate (SSC) in Science

GPA: **5/5**

Dhaka, Bangladesh

January 2014 – June 2016

EXPERIENCE

Contractual Lecturer

BRAC University

- As a lecturer, I take classes of undergraduate courses and provide consultations of the corresponding courses.

September 2023 – Present

Dhaka, Bangladesh

Machine Learning Engineer

mPower Social Enterprises Ltd.

- As a Machine Learning Engineer, I build custom machine learning models as a solution to address real-world problems.

June 2023 – Present

Dhaka, Bangladesh

Undergraduate Teaching Assistant

BRAC University

- As a teaching assistant, I attended labs and classes, graded assignments, provided 15 hours/week of consultation, offered learning materials, facilitated tutoring, guided study skills, and assisted with research papers.

February 2022 – April 2023

Dhaka, Bangladesh

Student Mentor

BRAC University

- Guided 1st year students with academic and non-academic obstacles during the first year of undergraduate university life.

October 2021 – September 2022

Dhaka, Bangladesh

RESEARCH INTEREST

Artificial Intelligence, Machine Learning, Deep Learning, Natural Language Processing, Federated Learning

PUBLICATIONS

- MD. Mustakin Alam**, Tanjim Ahmed, Meraz Hossain, Mehedi Hasan Emo, Md. Kausar Islam Bidhan, Md Tanzim Reza, Md. Golam Rabiul Alam, Mohammad Mehedi Hassan, Francesco Pupo, Giancarlo Fortino. **“Federated Ensemble-Learning for Transport Mode Detection in Vehicular Edge Network”**. In: Future Generation Computer Systems, *FGCS (2023)* DOI: <https://doi.org/10.1016/j.future.2023.07.022> [Journal: Q1, IF: 7.50]
- Rakin Mostafa, Md. Humaion Kabir Mehedi, **MD. Mustakin Alam**, Annajiat Alim Rasel. **“Bidirectional LSTM and NLP based Sentiment Analysis of Tweets”**. In: 14th International Conference on Soft Computing and Pattern Recognition, *SoCPaR (2022)*. DOI: [10.1007/978-3-031-27524-1_62](https://doi.org/10.1007/978-3-031-27524-1_62) [Conference]

- [3] Nafisa Nawer, Md. Shakiful Islam Khan, **MD. Mustakin Alam**, Md. Humaion Kabir Mehedi, Annajiat Alim Rasel. “**Transformation of Visual Information Into Bangla Textual Representation**”. In: 2023 IEEE 13th Annual Computing and Communication Workshop and Conference, *CCWC (2023)* DOI: 10.1109/CCWC57344.2023.10099345 [Conference]
- [4] Niloy Farhan, Ishrat Tasnim Awishi, Md. Humaion Kabir Mehedi, **MD. Mustakin Alam**, Annajiat Alim Rasel. “**Ensemble of Gated Recurrent Unit and Convolutional Neural Network for Sarcasm Detection in Bangla**”. In: 2023 IEEE 13th Annual Computing and Communication Workshop and Conference, *CCWC (2023)* DOI: 10.1109/CCWC57344.2023.10099157 [Conference]

PROJECTS

- Sentiment Analysis Using Bidirectional LSTM** | *Python, NLTK* July 2022 – September 2022
- This is a sentiment analysis project based on Bidirectional LSTM and Natural Language Processing. This project finds more than 90% accuracy while classifying sentiments.
- Traffic Flow Prediction: A Time Series Analysis Using LSTM** | *Python* September 2022 – October 2022
- It is a time series analysis project using LSTM neural network. In this project, the traffic flow is predicted as a regression problem to control the traffic flow.
- Paper Tales** | *HTML, CSS, JS, MySQL, Laravel framework, PHP, Stripe API* June 2022 – August 2022
- This project was made for the completion of the course Software Engineering (CSE470) of BRAC University.
 - This is a full-fledged web app project for an online book store built from scratch.

TECHNICAL SKILLS

Languages: Python, Java, C, PHP, Bash, MySQL, HTML/CSS, LaTeX, Markdown
Developer Tools: Visual Studio Code, PyCharm, IntelliJ, MS Office, Google Suite, Overleaf, Google Colab, Jupyter Notebook, Cisco Packet Tracer
Frameworks & Libraries: Laravel, Pandas, NumPy, Matplotlib, Seaborn, Tensorflow, Scikit-learn
Operating Systems: Windows, Linux
Hardware Interfacing: Arduino UNO, Raspberry Pi 4

EXTRACURRICULAR ACTIVITIES & COMPETITIONS

- Senior Executive of Human Resources** September 2019 – October 2021
Robotics Club of BRAC University - ROBU Dhaka, Bangladesh
- Assistant Director of Human Resources** October 2019 – August 2020
BRACU Entrepreneurship Development Forum (EDF) Dhaka, Bangladesh
- Olympiad Participant** October 2017
National Environment Olympiad, Art, & Poster Competition 2017 Dhaka, Bangladesh
- Competition Participant** June 2022
Robi Datathon 2.0 Dhaka, Bangladesh

AWARDS & ACHIEVEMENTS

- Merit Scholarship Based on BRACU Academic Results** November 2020 – March 2023
BRAC University Dhaka, Bangladesh
- 75% waiver on Tuition Fees on every semester.
- Vice Chancellor's List and Dean's List Award** May 2023
BRAC University Dhaka, Bangladesh
- Got placed on VC's List for 9 semesters as recognition of achieving a GPA of 3.90-4.00 on those particular semesters.
 - Got placed on Dean's List for 1 semester as recognition of achieving a GPA of 3.70-3.89 on that particular semester.
- Completed Bachelor's with Highest Distinction** May 2023
BRAC University Dhaka, Bangladesh
- Awarded to candidates whose CGPA is 3.80 or higher.