

# 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

### Machine Learning Engineer

*mPower Social Enterprises Ltd.*

- As a Machine Learning Engineer, I build custom machine learning models as a solution to address real-life 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]
- Nafisa Nower, 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](https://doi.org/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

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- 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

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**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

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- 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
- Event Volunteer** June 2019  
*NRB Jobs Presents BRAC University National Career Fair 2019* 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

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- 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.