

MD. Mustakin Alam

335/1D Ahmednagar, Paikpara, Mirpur-1, Dhaka-1216, Bangladesh
+8801685505242 | md.mustakin.alam@g.bracu.ac.bd | [LinkedIn: MD. Mustakin Alam](#)
[Github: mustakinalam](#) | [ResearchGate: Md Mustakin Alam](#) | [Google Scholar: MD. Mustakin Alam](#)
[Website: https://mustakinalam.github.io/](https://mustakinalam.github.io/)

EDUCATION

BRAC University

Bachelor of Science in Computer Science and Engineering

CGPA: **3.96/4** — Completed Credits: **124/136** (As per Fall 2022)

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

Dhaka, Bangladesh

May 2019 – Present

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

Student Mentor

BRAC University

October 2021 – September 2022

Dhaka, Bangladesh

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

Undergraduate Teaching Assistant

BRAC University

February 2022 – Present

Dhaka, Bangladesh

- As a teaching assistant, I attended lab classes, graded assignments, and provided 15 hours/week of consultation for students to assist them in problem-solving and exam preparation. I also provided learning materials, facilitated tutoring, and guided students in developing good study skills. Furthermore, I introduced students to research methodology and assisted them in writing research papers.

RESEARCH INTEREST

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

PUBLICATIONS

- [1] **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, *Under 2nd Revision at FGCS (2023)* [Journal: Q1, IF: 7.307]
- [2] Rakim 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 [Conference]
- [3] 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 [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.
- Football Club Management System** | *HTML, CSS, PHP, MySQL* November 2021 – December 2021
- The web-app project was created for the completion of the Database Management System (CSE370) course at BRAC University.
- 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.
- Cybot** | *Python, UptimeRobot, Discord Developer Portal* September 2021 – October 2021
- Cybot is a Discord bot that plays music for you fetching from youtube.
 - It also returns some predefined texts.
- ParkIn** | *UML, Java, Android XML, Google Map API* October 2022 – December 2022
- This is a system analysis and design project which is done for the completion of the course System Analysis and Design (CSE471) of BRAC University.
 - ParkIn is an instant garage/parking spot rent solution.
 - System Analysis is done by numerous UML diagrams. Also, a prototype Android application is made in Android Studio using Java, Android XML, and Google Map API.

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
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
- 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

- Merit Scholarship Based on BRACU Academic Results** November 2020 – Present
BRAC University Dhaka, Bangladesh