

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**

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

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 – April 2023

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] 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 [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 <i>Python, NLTK</i>	July 2022 – September 2022
<ul style="list-style-type: none"> 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 <i>Python</i>	September 2022 – October 2022
<ul style="list-style-type: none"> 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 <i>HTML, CSS, PHP, MySQL</i>	November 2021 – December 2021
<ul style="list-style-type: none"> The web-app project was created for the completion of the Database Management System (CSE370) course at BRAC University. 	
Paper Tales <i>HTML, CSS, JS, MySQL, Laravel framework, PHP, Stripe API</i>	June 2022 – August 2022
<ul style="list-style-type: none"> 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 <i>Python, UptimeRobot, Discord Developer Portal</i>	September 2021 – October 2021
<ul style="list-style-type: none"> Cybot is a Discord bot that plays music for you fetching from youtube. It also returns some predefined texts. 	
ParkIn <i>UML, Java, Android XML, Google Map API</i>	October 2022 – December 2022
<ul style="list-style-type: none"> 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 <i>Robotics Club of BRAC University - ROBU</i>	September 2019 – October 2021 <i>Dhaka, Bangladesh</i>
Assistant Director of Human Resources <i>BRACU Entrepreneurship Development Forum (EDF)</i>	October 2019 – August 2020 <i>Dhaka, Bangladesh</i>
Event Volunteer <i>NRB Jobs Presents BRAC University National Career Fair 2019</i>	June 2019 <i>Dhaka, Bangladesh</i>
Olympiad Participant <i>National Environment Olympiad, Art, & Poster Competition 2017</i>	October 2017 <i>Dhaka, Bangladesh</i>
Competition Participant <i>Robi Datathon 2.0</i>	June 2022 <i>Dhaka, Bangladesh</i>

AWARDS & ACHIEVEMENTS

Merit Scholarship Based on BRACU Academic Results <i>BRAC University</i>	November 2020 – March 2023 <i>Dhaka, Bangladesh</i>
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