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/

Education

BRAC University — Dhaka, Bangladesh
Bachelor of Science in Computer Science and Engineering — May 2019 – May 2023
CGPA: **3.96/4**
Thesis: **Federated Ensemble-Learning for Transport Mode Detection in Vehicular Edge Network**

BCIC College — Dhaka, Bangladesh
Higher Secondary Certificate (HSC) in Science — July 2016 – June 2018
GPA: **4.33/5**

BCIC College (School Section) — Dhaka, Bangladesh
Secondary School Certificate (SSC) in Science — January 2014 – June 2016
GPA: **5/5**

Experience

Student Mentor — October 2021 – September 2022
BRAC University — *Dhaka, Bangladesh*
- Guided 1st year students with academic and non-academic obstacles during the first year of undergraduate university life.

Undergraduate Teaching Assistant — February 2022 – April 2023
BRAC University — *Dhaka, Bangladesh*
- 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.

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 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.

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.

ParkIn | *UML, Java, Android XML, Google Map API* October 2022 – December 2022
- 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 – 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.