Md Mustakin Alam

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Website: https://mustakinalam.github.io/

Education

University of Louisiana at Lafayette — Lafayette, Louisiana, United States
Doctor of Philosophy - PhD in Computer Science — August 2024 – Present

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**

Experience

Graduate Teaching Assistant — August 2024 – Present
University of Louisiana at Lafayette — *Lafayette, Louisiana, United States*
- As a Graduate Teaching Assistant, I provide consultations on the assigned courses and grade tasks.

Adjunct Lecturer — September 2023 – July 2024
BRAC University — *Dhaka, Bangladesh*
- As a lecturer, I take classes of undergraduate courses, provide consultations of the corresponding courses, grade tasks, and invigilate exams.

Machine Learning Engineer — June 2023 – July 2024
mPower Social Enterprises Ltd. — *Dhaka, Bangladesh*
- As a Machine Learning Engineer, I build custom machine learning models as a solution to address real-world problems.

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.

Experience details are available here: *https://mustakinalam.github.io/experience/*

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, ***FGCS (2023)*** *DOI: https://doi.org/10.1016/j.future.2023.07.022* [Journal: Q1, IF: 7.50]

[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]

Other publications are available here: *https://mustakinalam.github.io/publications/*

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.

Other projects are available here: *https://mustakinalam.github.io/projects/*

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*

Second Place April 2025
ULL Grad Student Appreciation Week Research Showcase - Poster Competition *Lafayette, Louisiana, United States*

Competition Participant June 2022
Robi Datathon 2.0 *Dhaka, Bangladesh*

Awards & Achievements

Academic Excellence Award April 2025
University of Louisiana at Lafayette *Lafayette, Louisiana, United States*

- Awarded to candidates whose CGPA is 4.00.

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.