MD. Mustakin Alam

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Education

BRAC University — Dhaka, Bangladesh
Bachelor of Science in Computer Science and Engineering — May 2019 – Present
CGPA: **3.96/4** — Completed Credits: **124/136** (As per Fall 2022)
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 – Present
BRAC University — *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, Francesco Pupo, Giancarlo Fortino, Dr Mohammad Mehedi Hassan. **"Federated Ensemble-Learning for Transport Mode Detection in Vehicular Edge Network"**. In: Future Generation Computer Systems, ***Under 2nd Revision at FGCS (2023)*** [Journal]

[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

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
Frameworks & Libraries: Laravel, Pandas, NumPy, Matplotlib, Seaborn, Tensorflow, Scikit-learn

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*