

# MD. Mustakin Alam

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

## 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, 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](https://doi.org/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](https://doi.org/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

<b>Sentiment Analysis Using Bidirectional LSTM</b>   <i>Python, NLTK</i>	July 2022 – September 2022
<ul style="list-style-type: none"> <li>This is a sentiment analysis project based on Bidirectional LSTM and Natural Language Processing. This project finds more than 90% accuracy while classifying sentiments.</li> </ul>	
<b>Traffic Flow Prediction: A Time Series Analysis Using LSTM</b>   <i>Python</i>	September 2022 – October 2022
<ul style="list-style-type: none"> <li>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.</li> </ul>	
<b>Football Club Management System</b>   <i>HTML, CSS, PHP, MySQL</i>	November 2021 – December 2021
<ul style="list-style-type: none"> <li>The web-app project was created for the completion of the Database Management System (CSE370) course at BRAC University</li> </ul>	
<b>Paper Tales</b>   <i>HTML, CSS, JS, MySQL, Laravel framework, PHP, Stripe API</i>	June 2022 – August 2022
<ul style="list-style-type: none"> <li>This project was made for the completion of the course Software Engineering (CSE470) of BRAC University</li> <li>This is a full-fledged web app project for an online book store built from scratch</li> </ul>	
<b>Cybot</b>   <i>Python, UptimeRobot, Discord Developer Portal</i>	September 2021 – October 2021
<ul style="list-style-type: none"> <li>Cybot is a Discord bot that plays music for you fetching from youtube</li> <li>It also returns some predefined texts</li> </ul>	
<b>ParkIn</b>   <i>UML, Java, Android XML, Google Map API</i>	October 2022 – December 2022
<ul style="list-style-type: none"> <li>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</li> <li>ParkIn is an instant garage/parking spot rent solution</li> <li>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</li> </ul>	

## 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

<b>Senior Executive of Human Resources</b> <i>Robotics Club of BRAC University - ROBU</i>	September 2019 – October 2021 <i>Dhaka, Bangladesh</i>
<b>Assistant Director of Human Resources</b> <i>BRACU Entrepreneurship Development Forum (EDF)</i>	October 2019 – August 2020 <i>Dhaka, Bangladesh</i>
<b>Event Volunteer</b> <i>NRB Jobs Presents BRAC University National Career Fair 2019</i>	June 2019 <i>Dhaka, Bangladesh</i>
<b>Olympiad Participant</b> <i>National Environment Olympiad, Art, &amp; Poster Competition 2017</i>	October 2017 <i>Dhaka, Bangladesh</i>
<b>Competition Participant</b> <i>Robi Datathon 2.0</i>	June 2022 <i>Dhaka, Bangladesh</i>

## AWARDS & ACHIEVEMENTS

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