

Aminur Rahman

☎ +880 1878-547172 | @ aminurrahmanashik@gmail.com | [in LinkedIn](#) | [GitHub](#) | [Portfolio](#) | 📍 Dhaka, Bangladesh

EDUCATION

Bachelor of Science in Computer Science and Engineering Chittagong University of Engineering and Technology (CUET) CGPA: 3.78 (with honors)/4.0 Merit Position: 10th among 126 students	2018 - 2023
Higher Secondary Certificate Shaheed Police Smrity College, Dhaka GPA: 5.00 /5.00	2015 - 2017
Secondary School Certificate Banani Model School, Dhaka GPA: 5.00 /5.00	2014 - 2015

RESEARCH INTERESTS

Natural Language Processing | Large Language Models (LLMs) | Machine Learning | Deep Learning | Low-Resource Language Computing | Healthcare NLP

RESEARCH EXPERIENCE

Founding Member & Researcher, KCR-Lab 🔗	Oct 2024 - present
<ul style="list-style-type: none">• Supervise undergraduate research in machine learning, deep learning, and computation linguistics• Organize workshops, hands-on training to stablish students as experts in AI• Mentor students in research methodology, experimental design, and publication writing• Lead projects exploring natural language processing for low-resource languages• Collaborate with faculty on interdisciplinary research initiatives	
Undergraduate Thesis Researcher, CUET	Feb 2022 - April 2023
<ul style="list-style-type: none">• Title: “A Deep Learning Based Pharmaceutical Product Evaluation from Bengali Reviews Considering Emoji”• Developed a benchmark dataset of 4000+ pharmaceutical product reviews• Identified the Rating-Review discrepancy concern in E-commerce industry• Proposed a novel approach to integrate emoji effects in text classification tasks• Implemented ML and Hybrid Deep learning methods to classify user-generated reviews• Supervised by: Prof. Dr. Muhammad Ibrahim Khan	

PUBLICATIONS

C=CONFERENCE, J=JOURNAL

- [C.1] **BScFilter: A Deep Learning Approach for Sports Comments Filtering in a Resource Constraint Language.**
A. Rahman, M.I. Khan, M.M.H. Rifat
5th International Conference on Trends in Computational and Cognitive Engineering (TCCE 2023). [🔗](#)

[J.1] Triple-Pooling Feature Fusion with Explainable AI for E-Commerce Review Analysis: A Low-Resource Language Perspective

M.A. Mia, [A. Rahman](#), M.I. Khan, I.H. Sarker [\[Preprint\]](#)

[C.1] Optimizing Eye Disease Classification with Vision Transformers: An Analysis of Bangladeshi Fundus Images

[A. Rahman](#), M. Hasan, M.A. Mia, M.I. Khan [\[Preprint\]](#)

TEACHING & PROFESSIONAL EXPERIENCE

Lecturer, Department of CSE, Dhaka International University (DIU) [↗](#)

Sep 2023 - present

- Teach undergraduate courses in Computer Science and Engineering
- Develop practical lab exercises focusing on implementation of theoretical concepts
- Supervise undergraduate students on academic and research projects
- Participate in curriculum development and course assessment activities

Software Engineer Intern, Dynamic Solution Innovators (DSI)

Nov 2023 - Dec 2023

- Completed project on Railway Seat Reservation System [🔗](#)
- Gained experience in software development life cycle and agile methodologies
- Collaborated with cross-functional teams on system design and implementation

RESEARCH PROJECTS**Diabetes Factor Analysis with Outlier Detection** [🔗](#)

Technologies: Scikit-learn, pandas, numpy, matplotlib, seaborn

- Applied statistical methods to identify significant factors affecting diabetes diagnosis
- Implemented outlier detection techniques to improve feature selection quality
- Employed ensemble methods (Random Forest, XGBoost) for enhanced prediction accuracy
- Achieved 2-4% overall performance increment with outlier removal

Sentiment Analysis on Twitter Texts [🔗](#)

Technologies: Scikit-learn, NLTK, Transformers, Tkinter, pandas, matplotlib

- Developed a system for social media sentiment classification
- Implemented multiple feature extraction techniques (TF-IDF, word embeddings)
- Compared performance across classical ML and deep learning approaches
- Created interactive interface for real-time sentiment prediction

CUET-BUS-TRACKER: Real-time Transportation Monitoring System [🔗](#)

Technologies: Java, Firebase, Google Maps API, Android Studio

- Designed and implemented location tracking system for university transport
- Built Android application with real-time updates for student convenience
- Integrated Google Maps API with Firebase for synchronous data updates

TECHNICAL SKILLS

Machine Learning: Scikit-learn, PyTorch, TensorFlow, Keras

Data Analysis: Pandas, NumPy, Matplotlib, Seaborn

Natural Language Processing: NLTK, SpaCy, Transformers

Programming Languages: Python, C, C++

Web Development: HTML, CSS, PHP

Database: MySQL, Firebase

Research Tools: LaTeX, Jupyter Notebooks

Languages: Bengali (Native), English (Fluent, IELTS: 6.5)

Version Control: Git

CERTIFICATES

Machine Learning
Stanford University

Python for Everybody Specialization
University of Michigan

Deep Learning Specialization (Three Courses)

Natural Language Processing with Classification and Vector Spaces
DeepLearning.AI

DeepLearning.AI TensorFlow Developer Specialization
DeepLearning.AI

Advanced Deep Learning with Keras
Datacamp

HONORS & AWARDS

Microsoft Virtual Hackathon 2022
Secured a position among the top 34 participants out of 625 teams

CUET-ETE DAY ML Competition
Secured 12th position in a machine learning contest arranged by Department of ETE, CUET

Best Poster Presenter
Won the best poster presenter award in Algorithm Design Course

ALPHA Tester for DeepLearning.AI
Selected as an Alpha Tester for course development at DeepLearning.AI

Government Technical Board Scholarship
Awarded each semester for academic excellence at CUET

PROFESSIONAL AFFILIATIONS & LEADERSHIP ROLES

Advisor, DIU Cyber Security Club

Mar 2024 - present

- Guide and supervise students in various competitions and workshops
- Coordinate and organize training and skill sessions by inviting experts

Coordinator, Undergraduate Pre-defence Sessions

July 2024 - present

- Facilitate pre-defense sessions for undergraduates by organizing presentations
- Invite faculty and coordinate with students for proposal defenses at DIU
- Evaluate the proposals of undergraduate level projects and thesis

Publication Secretary, CUET Computer Club

Aug 2022 - Jun 2023

- Managed club publications
- Coordinated technical content creation

PROFESSIONAL DEVELOPMENT

- Workshop on *Bloom's Taxonomy, OBE, LOs & Attainments* [↗](#) (IQAC, DIU)
- Workshop on *Document Preparation for IEB* (Department of CSE, DIU)
- Workshop on *CO, PO Assessment and Course File Preparation* (Department of CSE, DIU)
- Workshop on *IoT-Based Smart Campus* [↗](#) (ICT Division and BD High-TECH park)
- Workshop on *Software Engineering: The Best Professional Practices* [↗](#) (Department of CSE, CUET and Brain-Station23)

ADDITIONAL ACTIVITIES

- | | |
|---|---------------------|
| • Executive Member, Workshop and Seminar Organizing Committee, DIU | July 2024 - present |
| • Executive Member, Program Documentation & Newsletter Committee, DIU | July 2024 - present |
| • Campus Ambassador, Scholarship School BD ↗ | Aug 2020 - Jun 2023 |
| • Content Writer, Engineers Diary ↗ | Mar 2020 - present |

REFERENCES

Dr. Muhammad Ibrahim Khan

Professor, Department of CSE, CUET

Thesis Supervisor

Contact: +880 1713-018506

Email: muhammad_ikhan@cueta.ac.bd

Dr. Mohammad Shamsul Arefin

Dean, Faculty of ECE, CUET

Course Instructor

Contact: +880 1716-890204

Email: sarefin@cueta.ac.bd