

Aminur Rahman

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EDUCATION

Master of Science in Computer Science and Engineering 2025 - Ongoing
Chittagong University of Engineering and Technology (CUET)

Bachelor of Science in Computer Science and Engineering 2018 - 2023
Chittagong University of Engineering and Technology (CUET)
CGPA: **3.78** (with **honors**)/4.0
Merit Position: **10th** among 126 students

Higher Secondary Certificate 2015 - 2017
Shaheed Police Smrity College, Dhaka
GPA: **5.00**/5.00

Secondary School Certificate 2014 - 2015
Banani Model School, Dhaka
GPA: **5.00**/5.00

RESEARCH INTERESTS

Natural Language Processing | Large Language Models (LLMs) | Low-Resource Language Computing | Healthcare NLP
| Multi-modal AI

RESEARCH EXPERIENCE

Founding Member & Researcher, KCR-Lab [🔗](#) Oct 2024 - present

- 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

- 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
- Justified a review to be in a particular rating category with reasoning
- Supervised by: Prof. Dr. Muhammad Ibrahim Khan

[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). [↗](#)

[C.2] **Vision Transformers for Multi-Class Eye Disease Classification: Enhancing Early Detection in Resource-Constrained Healthcare**

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

3rd International Conference on Big Data, IoT and Machine Learning (BIM 2025)

UNDER REVIEW PAPERS

C=CONFERENCE, J=JOURNAL

[J.1] **Addressing Rating-Review Discrepancy in a Novel Dataset: An Explainable Pharmaceutical Product Evaluation using Multi-Stream Attention Transformer**

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

[J.2] **BanGRev: A novel Bengali tech gadget review corpus utilizing triple-pooling feature fusion with explainable AI**

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

[C.1] **Who's Next? An Interpretable Machine Learning Approach for Predicting Software Employee Turnover Tendency**

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

[C.2] **Prompting vs. Fine-tuning: Evaluating Bengali Violence Detection in a Low-Resource Setting**

M.A. Mia, A. Hossain, [A. Rahman](#), M.S. Mursalin, 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 2022 - Dec 2022

- 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) [🔗](#)

DeepLearning.AI

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

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