

Md Rifat Hossen

B.Sc. in Computer Science & Engineering (Undergraduate), CUET

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Objective

Motivated and hands-on aspiring ML/AI Engineer seeking to contribute to real-world intelligent systems and modern software solutions. Strong foundation in ML, DL, LLMs, and mobile/web development with practical project experience and a continuous learning mindset.

Education

Chittagong University of Engineering & Technology (CUET)

2022 – 2026 (Expected)

B.Sc. in Computer Science & Engineering, Chattogram, Bangladesh

CGPA: 3.63 / 4.00

Research Interests

Machine Learning, Deep Learning, Multimodal Learning, Large Language Models (LLMs), Natural Language Processing (NLP), Convolutional Neural Networks (CNNs)

Technical Skills

Languages: Python, Java, JavaScript, C/C++, HTML, CSS, Solidity, Hindi, Urdu

AI/ML: scikit-learn, pandas, NumPy, TensorFlow (basics), ResNet, Grad-CAM, LLM fundamentals

Web: MERN Stack (MongoDB, Express, React, Node.js), Firebase Hosting

Mobile: React Native (Expo Router), Android Studio, Kotlin, Java

Backend: Spring Boot, MySQL, RESTful APIs, Docker (basics)

Tools/Others: Git & GitHub, Streamlit, SQLite, Firebase Auth/Firestore, Mapbox, DSA/CP

Publications

Md Rifat Hossen, Md Nahian Abdullah. *Advancing Semiconductor Fabrication: A CNN-Based Wafer Defect Detection with XAI Insights*. In: **ECCE 2025** (International Conference on Electrical, Computer and Communication Engineering), CUET, Bangladesh, 13–15 Feb 2025. DOI: 10.1109/ECCE64574.2025.11013292 (Presented by Author).

Ariful Islam, Md Rifat Hossen. *BanglaSentNet: A Hybrid Deep Learning Framework for Multi-Aspect Sentiment Analysis in Bangla E-Commerce Reviews*. In: **ICDSAIA 2025** (International Conference on Data Science, AI and Applications), EATL Innovation Hub, Kaliakair Hi-Tech City, Gazipur, Bangladesh, 18–19 Jul 2025. (Presented by Author).

Projects (Selected)

MyCUETBus

React Native, Expo Router, Mapbox GL, Firebase/Firestore

- Real-time campus bus tracking Android app with live maps and Firebase auth.
- Repos: MyCUETBus, Hosting & APK page

TechBazar20

Kotlin, Jetpack Compose, MVVM, Firebase

- Android e-commerce app with Compose UI, MVVM architecture, and Firebase backend.
- Repo: TechBazar20

Email Spam Classifier	Python, scikit-learn, Streamlit
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- TF-IDF features + classical ML model served via Streamlit.
- Repo: Email-Spam-Classifier-ML-Model

ML Movie Recommendation System	Python/Jupyter
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- Hybrid recommender (collaborative + metadata).
- Repo: ML-Movie-Recommendation-System

Stadium Ticket Management System	Spring Boot, MySQL, Bootstrap
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- Full-stack ticketing platform with admin features and MySQL persistence.
- Repo: Stadium-Ticket-Management-System

Certifications & Training

Machine Learning Specialization — DeepLearning.AI & Stanford (Andrew Ng). Verify: 7DRBM-CJBH6U0. Sep 2024

Mobile App Development (Android/Flutter/iOS) — EDGE Project (BCC, ICT Division) hosted by CUET CSE — 80 hours. Sep–Dec 2024 (Issued Feb 12, 2025)

Workshop: Roadmap to Successful Products — Software Engineering Best Practices — Dept. of CSE, CUET & Kolpolok Ltd. Feb 2025

Leadership & Activities

General Secretary, Dhaka College Association of CUET — Executive Committee **2024–2025**

Joint General Secretary, Greater Dhaka Association of CUET — Executive Committee **2024–2025**

Presenter/Contributor, **ECCE 2025**, CUET (paper accepted and presented)

Presenter/Contributor, **ICDSAIA 2025**, Gazipur (paper accepted and presented)

Organizer/Volunteer, CUET Career Fest **2024** — Recognized by CUET Career Club for “phenomenal effort in organizing the event” (Certificate of Achievement; signed by President and General Secretary).

Content Creation

YouTube Channel: Rifat HossaiN Bro (@RifatHossaiNBro) — travel/comedy/roasting content; created in 2018.

Subscribers: Approximately 21,000+

Notable Achievements: Content creation, audience engagement, and channel growth over the years.

Languages

Bengali (Native), English (Professional Proficiency), Hindi (Fluent), Urdu (Fluent)

Additional Information

Open-source contributions; graphic design freelancing; solved 200+ coding problems across platforms.