

# 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

- TF-IDF features + classical ML model served via Streamlit.
- Repo: Email-Spam-Classifer-ML-Model

## ML Movie Recommendation System

Python/Jupyter

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

## Stadium Ticket Management System

Spring Boot, MySQL, Bootstrap

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

## Certifications & Training

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**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

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**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

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**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

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

## Additional Information

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