Maimuna Chowdhury

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RESEARCH AND PROJECTS

- **Deep Learning-based Thesis | Epileptic Seizure Detection**
  - Augmented CHB-MIT scalp **EEG dataset** for improved model performance.
  - Applied **Short-Time Fourier Transform (STFT)** for feature extraction.
  - Implemented **ConvNext (Transformer-based model)** for training and testing.
  - Implementing **Fourier Analysis Network (FAN)** to compare the performance.
  - Planning to include **expert opinion elicitation** to enhance accuracy.
- **AgriPro-Cross-platform Investment App**

  Technologies: Flutter, Dart
  - Developed a **mobile application** connecting agriculture investors and farmers.
  - Provided a **common platform** for investment, financial management, and agricultural opportunities.
- **Travel Management-Database System**

  Technologies: MySQL
  - Designed a comprehensive **database system** for managing:
    - Transport bookings
    - Hotel reservations
    - Tour guide services
    - Other travel-related facilities
- **Travel Accessories-E-commerce Website**

  Technologies: HTML, CSS, JavaScript, Laravel, SQL
  - Developed a fully functional **e-commerce platform** for purchasing travel accessories.
  - Integrated **user authentication**, product filtering, and a secure payment system.
- **City Guide-Android App**

  Technologies: Java, Firebase
  - Created an **Android application** to provide real-time information on Hotels, Restaurants, Hospitals, Institutions.
  - Enabled user-generated content for adding new locations and updates.
- **3D Graphics Airport Simulation**

  Technologies: OpenGL, C++
  - Designed a **3D airport terminal** model with :
    - Interactive camera controls for navigation.
    - **Dynamic lighting effects** for realistic visualization.

EDUCATION

2020 – 2025 **Khulna University of Engineering & Technology, Khulna**

*B.Sc. in Computer Science and Engineering, CGPA: **3.83***

PROGRAMMING SKILLS

- Programming Languages: Java, C++, Javascript, Python.
- Database: MySQL, Firebase.
- Frameworks/Tools: Git, Flutter, Laravel.

PROGRAMMING PROFILES

- **Leetcode**: leetcode.com/Maimuna_Chowdhury/