MIJU AHMED

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Portfolio LinkedIn GitHub

EDUCATION

B.Sc. in Computer Science and Engineering — Jan 2020 – Oct 2025
University of Rajshahi — CGPA: 3.44 / 4.00

EXPERIENCE

Deep Mind Labs — AI/ML Engineer

Bank Security System [React, Django, PyTorch]

- Designed and implemented an AI-driven access control system using ID-card detection, logo classification, and face verification.
- Built PyTorch inference pipelines and integrated them with Django REST APIs for real-time security validation.
- Developed a React-based frontend to visualize verification results and system status.

Apex Person Counting System [React, PyTorch]

- Implemented a real-time people counting system using computer vision models on live video streams.
- Optimized frame processing and built a dashboard to visualize daily and historical footfall analytics.

PROJECTS

Deep Learning Applications Suite [PyTorch, TensorFlow]

- Developed deep learning solutions including crowd counting, face detection and verification, image segmentation, generation, and reconstruction.
- Implemented full ML pipelines covering data preprocessing, model training, evaluation, and visualization.

Food Ordering Platform [Spring Boot, MySQL]

- Built RESTful backend services for authentication, order lifecycle management, and transactional data operations.

Forum Hub (Social Networking Platform) [MERN Stack]

- Developed a social platform supporting posts, comments, and scalable user interaction workflows.

University Details Management System [Django]

- Built a centralized system for managing student, teacher, and academic records with role-based access control.

Educational Platform [Flutter]

- Developed a cross-platform mobile application focused on clean UI and structured academic data handling.

Microcontroller Communication (UART & I2C) [C]

- Implemented low-level UART and I2C communication between microcontrollers.

Book Store Management System [Laravel]

- Built a CRUD-based inventory management system following MVC architecture.

RESEARCH

Face Landmark Detection Using Self-Supervised Vision Transformer

- Applied self-supervised Vision Transformers and contrastive learning techniques to detect facial landmarks.

PROBLEM SOLVING

- Solved 600+ problems on Codeforces, 120+ on LeetCode, and 150+ across CodeChef, UVA, LightOJ, and CSES.
- Strong understanding of data structures, algorithms, and time–space complexity trade-offs.

SKILLS

Languages	Java, Python, C, C++, C#, PHP
Frameworks	Spring Boot, Django, Laravel, TensorFlow, PyTorch, Flutter
Libraries	NumPy, Pandas, OpenCV, Scikit-learn
Databases	MySQL, PostgreSQL, MongoDB
Tools	Git, GitHub, Postman, Docker
Concepts	OOP, SOLID, Clean Architecture, SDLC