

Md. Sabbir Ahmed Munna

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Education

United International University (UIU)

Dhaka, Bangladesh

Bachelor of Science in Computer Science and Engineering

Major: Data Science

Expected Graduation: Summer 2027

Relevant Coursework: Machine Learning, Data Mining, Software Engineering, Database Systems, Data Structures and Algorithms, Computer Networks, Human Computer Interaction.

Research Interests

Artificial Intelligence, Machine Learning, Computer Vision, Face Anti-Spoofing, Medical Image Analysis, Image Classification, Deep Learning, Explainable AI.

Academic Projects

Image Liveness Detection for Face Anti-Spoofing

Final Year Design Project

- Developing an image-based face liveness detection system to distinguish genuine users from presentation attacks.
- Investigating computer vision techniques for secure biometric authentication under different spoofing scenarios.
- Responsible for dataset preparation, image preprocessing, experimentation, backend development, and system implementation.

Nulens AI — Bangladeshi Food Image Recognition System

- Developed an AI-powered web application for recognizing Bangladeshi food items from images.
- Worked with a curated Bangladeshi food image dataset, including image organization, preprocessing, and deployment.
- Integrated machine learning inference into a web application to provide real-time food recognition.

REMS — Rover Education Management System

- Developed a modular Education Management System using Next.js, TypeScript, PostgreSQL, and Supabase.
- Implemented authentication, role-based authorization, and academic management modules following modern software engineering principles.
- Contributed to backend architecture, database design, API development, and scalable application structure.

Research Experience

Final Year Design Project

Working on an AI-based face liveness detection system for biometric authentication. The project focuses on investigating computer vision techniques for detecting presentation attacks and improving authentication reliability. Current work includes dataset preparation, experimentation, and prototype development.

Technical Skills

Programming Languages

Python, Java, C, JavaScript

Web Development

React, Next.js, Node.js, Express.js, HTML, CSS

Database

PostgreSQL, MongoDB, SQL

Tools

Git, GitHub, Supabase, Vercel, Figma

Research Motivation

I am passionate about applying Artificial Intelligence and Machine Learning to solve practical real-world problems. My current research interests focus on Computer Vision, Face Anti-Spoofing, and Medical Image Analysis. Through my final year project and previous AI-related work, I have developed a strong interest in conducting research involving image understanding, deep learning, and intelligent systems. I am eager to contribute to collaborative research while strengthening my research methodology, experimental design, and scientific writing skills.

Academic Activities

- Built multiple academic and software engineering projects using modern web technologies.
- Interested in interdisciplinary research combining Artificial Intelligence with real-world applications.
- Continuously learning advanced concepts in Machine Learning and Computer Vision.

Languages

Bangla	Native
English	Professional Working Proficiency