Shoaib Uddin

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Education

B.Sc. (Engg.) **University of Chittagong**, Computer Science & Engineering — 2025

- *CGPA:* 3.43/4.0

Technical Projects

Voter Slip Generator – Automated PDF-to-Slip Web Application — 2026

GitHub Repository | voter-slip-generator.vercel.app

- Developed an end-to-end web application that processes layout-specific PDFs to extract Bengali text and generate structured JSON for automated voter slip creation with customizable designs, using a backend pipeline built with **YOLOv8n**, **Python**, and **Tesseract OCR**, exposed via APIs to a **React (Vite) + TypeScript** frontend deployed on **Vercel**.

Krishibid – Crop Leaf Disease Detection App — 2024

GitHub Repository | Live Demo on Web | Try APK

- Built a mobile app for real-time crop disease prediction using a TensorFlow Lite model, with UI designed in Figma and implemented in **React Native** and **Firebase**, featuring real-time comments, reactions, ratings, Google Maps integration, pagination, and animations via Reanimated and GSAP.

Result Processing System — 2024

GitHub Repository

- Designed UI wireframes in **Figma** and built user-focused result dashboards using **React**, **TypeScript**, **Tailwind CSS**, and **Shadcn UI**, coordinating closely with backend and database teams in an Agile environment.

Thesis

Cotton Leaf Disease Detection and Classification Using Fine-tuned ResNet50 Architecture — 2025

GitHub Repository | Read Manuscript | cottonguard.vercel.app

- Fine-tuned and evaluated deep learning models for cotton leaf disease detection using **Python**, **TensorFlow**, and **Scikit-learn** across varied augmentation, class balancing, dropout, and learning rate settings.
- Deployed the best-performing model on Hugging Face Spaces with a Gradio interface and integrated it into a **React**-based web application hosted on **Vercel**, enabling image-based inference via API communication.

Technical Skills

Programming Languages: Python, JavaScript, C, C++

Web & Application Development: React, Next.js, React Native, RESTful APIs, GraphQL, Firebase, MongoDB, Figma

Development Tools & Engineering Practices: Git/GitHub, Docker, VS Code, Google Colab, n8n, Agile Development, SDLC, API Integration, Technical Documentation

Machine Learning & Deep Learning: TensorFlow, Keras, PyTorch, Scikit-learn, NumPy, OpenCV, Matplotlib, Seaborn, LangChain, Hugging Face, RAG, Prompt Engineering, LLMs, Computer Vision, Transfer Learning

Problem Solving & Competitive Programming

- Participated in programming contests including ICPC Dhaka Regional Online Preliminary (2019–2024), Engineering Day CU, CSE Fest (CUET), and EDU Fest.
- Solved over 300+ problems on Codeforces (Rating: 1022), UVa, LeetCode, CodeChef (Rating: 1236) and AtCoder (Rating: 90).

Professional Certifications

- Fundamentals of AI Agents Using RAG and LangChain by IBM

Achievements

- Participant and National Round Qualifier – 8th Dutch-Bangla Bank–Prothom Alo Bangladesh Physics Olympiad, 2018.
- Team Lead – Design and Marketing Team, CSEPL 2022 & 2023, organized by the CSE Department, University of Chittagong.