

# ROCKY DEWAN

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**ML/AI ENGINEER** (3+ year) - **SOFTWARE DEVELOPER** (2+ year) - **WEB DEVELOPER** (2+ year)

## PROFILE SUMMARY

- Expertise in data extraction and preprocessing using Python (Pandas, NumPy, Matplotlib, Seaborn etc).
- Skilled in training, fine-tuning, and deploying LLMs across web, desktop, and mobile platforms.
- Proven ability to build scalable AI solutions with a strong focus on software engineering and user experience.
- Developed 5+ full-stack projects including attendance systems, AI chatbots, and monitoring dashboards with UI/UX emphasis.impact.
- Designed and deployed over 7+ full-stack solutions including attendance systems, AI chatbot, city monitoring and satellite-tracking dashboards with strong UI/UX consideration.
- Proficient in cross-platform development using C++, Python, Dart (Flutter), and JavaScript for IoT, web, and embedded systems.
- Results-driven problem solver focused on optimizing algorithms, model accuracy, and performance.

## PROJECTS

### 1. Birds Classification using Transfer Learning (2025)

Developed a deep learning model to classify multiple bird species using advanced transfer learning techniques with 99.47% accuracy.


 : <https://github.com/Rocky-Dewan/Birds-Classification-using-Transfer-Learning>

 : Python, TensorFlow, Keras, Transfer Learning, EfficientNetB3, ResNet152V2, Matplotlib, Scikit-learn, Jupyter Notebook and others+

### 2. AttendSure: AI-Powered Attendance & Analytics (2025)

Developed an intelligent attendance system using facial recognition and computer vision. Leveraged transfer learning (ResNet) for face detection and engagement analytics for classroom insights.

 : <https://github.com/Rocky-Dewan/AttendSure>

 : Python, OpenCV, Firebase Realtime Database, Face Recognition Library, Flask, HTML, CSS, JavaScript, Bootstrap, Barcode Scanner Integration, Real-Time Data Visualization and others+

### 3. CityPulse: Smart Urban Issue Reporting Platform (2025)

CityPulse is a full-stack urban issue reporting platform that empowers citizens to report real-world city problems like potholes, broken streetlights, and garbage dumps directly from their location.


 : <https://github.com/Rocky-Dewan/City-Pulse>

 : JavaScript, React.js, MongoDB, OpenStreetMap API, REST API, Axios, Tailwind CSS, Render.

### 4. ChatBot for School Management System (2024)

Developed an AI-powered chatbot to automate student and staff queries within a school management system

 : <https://github.com/Rocky-Dewan/ChatBot>

 : Python, PHP, MySQL, Natural Language Processing (NLP), Flask, HTML, CSS, JavaScript, AJAX

**More projects:** <https://github.com/Rocky-Dewan>

## PROFESSIONAL EXPERIENCE

- AI-Powered Software Engineer (Remote) | Fanni AI, Jordan March 2025 – April 2025

## VOLUNTEER EXPERIENCE

- ICPC Programming Contest (Volunteer) 2023
- Bangladesh AI Olympiad (Volunteer) 2025

## EVENTS AND ACTIVITY

- Participated in The 2021 ICPC Asia Dhaka Regional Site Online Preliminary Contest 03 September 2022


## ACHIEVEMENT

- First Runner-up | AI Model for Bird Species Classification | Tech Brainstorming Session 2024
- Champion | IoT-Based Attendance System | Tech Brainstorming Session 2025

## ACADEMIC CREDENTIAL

**Bachelor of Science in Computer Science and Engineering (Undergraduate, Final Year)**

2022 - 2026

 Bangladesh University of Business and Technology, Dhaka

## TECHNICAL SKILLS

- **Programming Language:** C, C++, Python, Java, JavaScript, MySQL, HTML, CSS
- **Framework:** Flutter, ReactJS, Django
- **Database:** MongoDB, MySQL
- **Tools:** Git, Linux, Virtual Machines