

Rocky Dewan

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🐙 github.com/Rocky-Dewan

🌐 rocky-dewan.github.io/-Rockyfolio

ML/AI Engineer (3+ yrs) • Software Developer (2+ yrs)

Profile Summary

- **Data Processing & Visualization:** Skilled in Python (Pandas, NumPy, Matplotlib, Seaborn) for efficient data extraction, cleaning, and analysis.
- **LLM Training & Deployment:** Hands-on experience fine-tuning and deploying large language models.
- **AI Projects:** Built 7+ full-stack AI systems including chatbots, dashboards, and reporting platforms.
- **Cross-Platform Development:** Proficient in Python, C++, JavaScript for IoT, embedded, and web.
- **Optimization & Scalability:** Focused on improving model accuracy and deployment efficiency.

Technical Skills

- **Languages:** C++, Python, Java, JavaScript, HTML, CSS
- **Databases:** MongoDB, MySQL, Firebase
- **ML/AI:** TensorFlow, PyTorch, Scikit-learn, Keras, LLMs, CNNs, NLP
- **Visualization:** Matplotlib, Seaborn, Plotly
- **Frameworks:** Django, Flask, FastAPI, Streamlit, React
- **DevOps:** Git, Docker, AWS, CI/CD, Linux, Postman

Key Projects

Assistant using RAG with Cohere API

2025

Implemented a Retrieval-Augmented Generation (RAG) pipeline using LangChain and Cohere API. The system allows users to query real estate documents (e.g., rental yields, property details), retrieving contextual data and generating accurate, grounded responses.

Tools: Python, Cohere API, LangChain, RAG, Document Retrieval, CSV, Vector Databases

GitHub Repo: github.com/Rocky-Dewan/Assistant-using-RAG-with-Cohere-API

Lead Qualifier with Airtable Integration

2025

Developed an AI-driven lead classification and entity extraction tool for real estate workflows. Used Cohere's LLMs to extract structured information (location, intent, budget) from free-text messages. The processed leads are automatically saved to CSV and pushed into Airtable for workflow automation.

Tools: Python, Cohere API, Airtable API, NLP, Entity Extraction, CSV Automation

GitHub Repo: github.com/Rocky-Dewan/Lead-Qualifier-with-Airtable-integration

AttendSure: AI-Powered Attendance & Analytics

2025

Built an intelligent attendance system using facial recognition and engagement analytics. Integrated real-time visualization and barcode-based entry verification for secure classroom tracking.

Tools: Python, OpenCV, Flask, Firebase Realtime Database, Face Recognition, HTML, CSS, JS, Bootstrap, Barcode Scanner

GitHub Repo: github.com/Rocky-Dewan/AttendSure

CityPulse: Smart Urban Issue Reporting Platform

2025

A full-stack web platform allowing users to report city issues (e.g., potholes, garbage) with geolocation support and visual tracking.

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

GitHub Repo: github.com/Rocky-Dewan/City-Pulse

More Projects: github.com/Rocky-Dewan

Portfolio: rocky-dewan.github.io/-Rockyfolio

Experience

AI Software Engineer (Remote) — Fanni AI, Jordan

Mar–Apr 2025

Developed AI-driven features for e-commerce, optimizing performance using scalable ML pipelines.

Education

B.Sc. in Computer Science and Engineering

2022–2026

Bangladesh University of Business and Technology (BUBT), Dhaka

Achievements

• First Runner-up — Bird Classifier, Tech Brainstorm

2024

• Champion — IoT Attendance System, Tech Brainstorm

2025