Rocky Dewan

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🌐 rocky-dewan.github.io/-Rockyfolio

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

Profile Summary

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

Technical Skills

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

Key Projects

Rockbot – AI Assistant   October-2025
Rockbot-AI is an advanced AI assistant built for autonomous task execution and complex interactions. Its core strength lies in a Multi-Agent Architecture with specialized agents (General, Translator, Creative Writer, Problem Solver, Task Executor) to handle Q&A, content generation, and task planning. The platform supports multi-modal processing and features adaptive learning. The user experience is enhanced through a modern React-based UI enabling conversation saving, sharing, and document export.
Tools: JavaScript, Python, React, Flask, Shell Scripting, LLMs, Multi-Agent Frameworks, OpenAI Vision API, OpenRouter, SQLAlchemy, Tailwind CSS, REST API, and others
GitHub Repo: github.com/Rocky-Dewan/Rockbot-AI-Assistant

CityPulse: Smart Urban Issue Reporting Platform   June-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. It's provide geolocation support and visual tracking for further progress.
Tools: JavaScript, React.js, MongoDB, Tailwind CSS, OpenStreetMap API, Axios, REST API, Postman, OpenStreetMap API, Axios, Tailwind CSS, Render
GitHub Repo: github.com/Rocky-Dewan/City-Pulse

Lead Qualifier with Airtable Integration   July-2025
Developed an AI-driven lead classification and entity extraction tool for any workflows. Used Cohere's LLMs to extract structured information 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   March-2025
Built an intelligent attendance system using facial recognition. Integrated real-time visualization and barcode-based entry verification for secure student motoring.
Tools: Python, OpenCV, Flask, Firebase, Face Recognition, HTML, CSS, JS, Bootstrap, Barcode Scanner
GitHub Repo: github.com/Rocky-Dewan/AttendSure

- **More Projects:** github.com/Rocky-Dewan
- **Portfolio:** rocky-dewan.github.io/-Rockyfolio

Experience

AI Software Engineer (Remote) — Fanni AI, Jordan   Mar–May 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