

ABHAY RANA

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Education

Graphic Era University, Dehradun

2023-2025

- MCA

Kumaon, Haldwani

2020-2023

- BA

Skills

C | Python | SQL | ML Algorithm | TensorFlow | PyTorch | MS Excel | Deep Learning |
Computer Vision | OpenCV | NLP | Git | Github | AI agent | VS code | Flask | API |

Projects

Real Time Digit Recognition

Nov-24

Developed a real-time digit recognition application that captures live video input through a webcam and predicts handwritten digits using a trained Convolutional Neural Network (CNN) model.

- Preprocessed input frames with OpenCV, including grayscale conversion, resizing, and normalization to ensure accurate predictions.
- Trained the CNN on the MNIST dataset, achieving high accuracy for digits 0–9.
- Designed to demonstrate the practical use of computer vision and deep learning in handwriting recognition applications such as bank cheque reading, postal code scanning, and form digitization.
- Tech Stack : Python, OpenCV, Firebase, Face Recognitio, ComputerVision.

AI Trading Agent for Binance Future

Apr-25

Developed an intelligent trading bot designed to automate decision-making on Binance Futures Testnet by analyzing market signals and executing trades with minimal human intervention.

- Collected real-time market data using Binance API, preprocessed it with Python libraries, and applied feature engineering to generate trade signals.
- Integrated a custom ML model to predict market direction and combined it with predefined trading strategies (e.g., stop-loss, take-profit) to reduce risk.
- Deployed the agent on Binance Futures Testnet, validated performance with live simulated trades, and fine-tuned strategy parameters to ensure reliability and robustness.
- Tech Stack : Python, Binance API, Machine Learning (for signal prediction), Flask.

Smart Healthcare & Appointment System

July-25

Created an AI-powered healthcare assistant to help users rapidly identify symptoms, book appointments, and receive real-time alerts—aiming to streamline the patient journey and reduce the burden on medical staff.

- The core model analyzes user symptoms through conversational input, uses NLP to extract intent and relevant medical entities, then provides accurate symptom assessments and next recommendations.
- Developed a conversational interface that processes real-time user input, triggers medical symptom analysis, interacts with appointment scheduling systems, and pushes timely alerts.
- Tech Stack : Python, NLP, Chatbot Framework, Streamlit.

Certificate

Data Analysis Visualisation with power BI Certificate

Apr-25

Supervised MachineLearning :Regression and classification

July-25