

RAHUL KATE

Machine Learning Engineer

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[GitHub](#) | [Linkedin](#) | [Portfolio](#) | [LeetCode](#)

EDUCATION

Pune Vidhyarthi Griha's College of Engineering and Technology

Pune,India

Artificial Intelligence and Data Science Bachelors

September 2024 - June 2028

GPA: 9.32

SKILLS

Programming Languages: python, c++, c, cuda, java

Libraries/Frameworks: tensorflow, keras, scikit-learn, pandas, numpy, matplotlib, seaborn, ploty, google-adk, pytorch, fastapi, flask, streamlit

Tools / Platforms: Git, VS code, Pycharm, Docker Desktop

Databases: SQL, MongoDB

PROJECTS / OPEN-SOURCE

potato-disease-prediction | [Link](#)

Jupyter Notebook, Python, HTML, CSS, PureBasic

Built a CNN-based image classification system using TensorFlow/Keras to detect potato leaf diseases, achieving 98% training accuracy and 97.5% validation accuracy, with a Dockerized end-to-end ML pipeline designed to scale easily to other plant leaf diseases.

Road Accident prediction | [Link](#)

Pandas, Python, Tensorflow, Keras, Numpy, Streamlit

Built a machine learning model to predict road accident risk using historical data, with end-to-end preprocessing, training, and evaluation

fleetSync | [Link](#)

Javascript ,html ,css, fastapi,pathway,docker,json,react,pytorch,pathway-llmapp

FleetSync is a web-based platform for real-time fleet monitoring and intelligent navigation. It uses an advanced pathway computation engine to optimize routes based on dynamic conditions like traffic and terrain. The system improves efficiency, reduces costs, and enables scalable, data-driven fleet operations.

Sachet AI | [Link](#)

Jupyter Notebook, Python, HTML, CSS, PureBasic

Developed a real-time AI disaster response system for emergency operations in Maharashtra. Built a FastAPI backend using a RAG pipeline with Llama 3.1 (Groq) and semantic search for live data ingestion. Collaborated on a React frontend featuring voice queries and Leaflet maps to provide actionable insights for disaster preparedness and decision support.

EDIPULSE | [Link](#)

Javascript ,html ,css, fastapi,pathway,docker,json,react

An software for X12 files that help to reduce the time overhead by pointing error and explainable ai

GraphSentinel | [Link](#)

GraphSentinel is a graph-based engine for detecting financial crimes by modeling transactions as interconnected networks. It uses graph analytics and machine learning to uncover hidden fraud patterns and suspicious relationships. The system enables real-time anomaly detection and scalable monitoring of complex financial activities.

papers-and-code | [Link](#)

pytorch,matplotlib,h5py

Research Papers implamentation with explanation . In this repo multiple models related to trnasformer and symbolic regression and their variant are implemented

HONORS & AWARDS

- Smart India Hackathon 2025 Finalist. , Here i had contributed in RAG (chatbot) for our application that has the big knowledge base of whole application