

Bilal Rukundi AI ML Student

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Education

A Diploma in Artificial Intelligence (AI) and Machine Learning (ML)

Rajarambapu Institute of Technology

2024 – 2027 | Pune

CGPA: 8.6

Relevant coursework: Machine Learning, Deep Learning, Natural Language Processing, Computer Vision

Technical Skills

Languages

Python, Java, JavaScript, HTML/CSS, React

Libraries & Frameworks

NumPy, Pandas, scikit-learn, PyTorch, TensorFlow, LangChain, Transformers, Hugging Face, FastAPI, PIL

Tools

Git/GitHub, Docker, Cursor, Anti Gravity

Hackathons

RAG Developer, Smart India Hackathon 2025

Developed AI-powered RAG chatbot for IN-GRES to deliver real-time groundwater data via NLP-driven query handling

Integrated document retrieval and knowledge-based systems for accurate, context-aware responses

Technologies: Python, LangChain, OpenAI API, NLP

AI Chatbot Engineer, Bharatiya Antariksh Hackathon 2025

Built bilingual (English & Hindi) AI chatbot with Botpress for easy access to ISRO geospatial satellite data

Developed knowledge graph from web sources, cutting data discovery time by ~70%

Made complex satellite datasets accessible to non-technical users (students, researchers, officials)

MIT 48-Hour, Hackathon 2025

Built an automated data cleaning and preprocessing pipeline using Python and Pandas, reducing manual data preparation time by 80%+ for real-time AI/ML models

Collaborated in a high-pressure 2-hour sprint to deliver production-ready AI solution from raw data to deployment

Experience

AI & Machine Learning Intern

DeepSurg

09/2025 – Present | London, United Kingdom

Built and optimized CNN models for real-time surgical video analysis, improving accuracy via hyperparameter tuning

Preprocessed and annotated endoscopic/laparoscopic datasets for training
Performed real-time inference and evaluated models against expert surgeon annotations

Projects

Urban Sound Narrative Generator

Personal Project • GitHub:

Wayn-Git/Urban-Sound-Narrative-Generator
Built AI pipeline that converts urban ambient sounds into creative narrated stories
Combined sound classification (PyTorch + Librosa) with Hugging Face LLM for story generation + ElevenLabs TTS
End-to-end audio-to-narrative system, fully open-source

IngressChatBot

Personal Project • GitHub:

Wayn-Git/IngressChatBot
Developed RAG-powered AI chatbot for IN-GRES groundwater data queries, enabling real-time insights via NLP-driven retrieval and visualization
Integrated LangChain and OpenAI API for context-aware responses; output JSON for dynamic charts (Matplotlib/Plotly) in a Streamlit interface
Enhanced user interaction with single-chat visualizations of complex datasets

Ongoing Projects

MCP-based AI project

Building modular components for scalable ML pipelines

Privacy Image Modifier

Automated tool using computer vision to detect and blur sensitive elements (faces, license plates); supports user selection for custom privacy controls

Certification

Oracle AI Foundations Associate

Machine learning with python free code camp

British Airways Virtual Internship