RAHUL BANDIKOLLA

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Portfolio — GitHub — LinkedIn

PROFESSIONAL SUMMARY

AI/ML engineering student with hands-on experience building and deploying end-to-end machine learning systems across computer vision, applied machine learning, and data science. Experienced in dataset curation, feature engineering, transfer learning, staged fine-tuning, and inference APIs, with emphasis on measurable performance and deployment-oriented constraints.

EDUCATION

Vardhaman College of Engineering, Hyderabad, India   **Expected Jun 2027**
Bachelor of Technology in Computer Science and Engineering (AI & ML)
CGPA: **9.14 / 10.0**
Relevant Coursework: Deep Learning, Computer Vision, Machine Learning, Natural Language Processing, Data Structures & Algorithms, Database Management Systems

TECHNICAL SKILLS

Programming: Python, SQL, JavaScript
Machine Learning: TensorFlow/Keras, CNNs, Transfer Learning (EfficientNet), Model Evaluation
Computer Vision: Image Classification, Object Recognition, Data Augmentation, Feature Extraction
Data Processing: Pandas, NumPy, Feature Engineering, Image Preprocessing
Web & APIs: Flask, Django, REST APIs, React, Express.js, HTML/CSS
Tools: Git/GitHub, Google Colab, Jupyter Notebook

PROJECTS

Kala — Deep Learning Artist Recognition System [Live Demo] [GitHub]   **2026**
Python, TensorFlow, Keras, EfficientNetV2-S, Flask, React

- Built an end-to-end artist classification system using **EfficientNetV2-S transfer learning**.
- Trained on **8,774 images (51 artists)** with stratified split and augmentation.
- Achieved **71% top-1** and **94% top-5 accuracy**.
- Deployed a **Flask inference API** with **113ms latency**.

MediBridge Connect — Real-Time Medical Translation [Live Demo] [GitHub]   **2026**
FastAPI, PostgreSQL, React (TypeScript), Socket.IO, GPT-4o, Whisper

- Architected a **full-stack real-time translation system** using FastAPI + React with two-phase broadcast (50–200ms delivery).
- Implemented **JWT httpOnly authentication** and cursor-based pagination over PostgreSQL.
- Integrated **GPT-4o** and **Whisper large-v3** for multilingual translation and transcription.

A.C.E. — Academic Control & Examination Platform (Hackathon)   **2025**
React, JavaScript, Express.js, Supabase

- Developed a multi-role academic management prototype for exam administration workflows.
- Designed a greedy seating allocation algorithm using round-robin branch interleaving.
- Implemented PDF-to-mind-map generation using heuristic extraction and React-based visualization.

EXPERIENCE

Python Programming Intern — VaultofCodes (Remote)   **Jul 2025 – Aug 2025**

- Developed three functional Python CLI applications including a Caesar cipher utility, expense tracker, and CRUD-based to-do manager.
- Implemented file-based persistent storage, structured data handling, and modular program design.
- Applied debugging and modularization practices to improve maintainability and correctness.

CERTIFICATIONS

- Salesforce Certified Agentforce Specialist — Salesforce   **Dec 2025**
- Artificial Intelligence Application Developer — NIELIT Chennai   **Nov 2025**
- Deep Learning — NPTEL (IIT Ropar)   **Jul–Oct 2025**