

# 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: **9.21 / 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, 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 and deployed an end-to-end artist classification system using transfer learning on EfficientNetV2-S for real-time inference.
- Trained on 8,774 images (51 artists) using a stratified 80/20 split with 8x augmentation.
- Achieved 71% top-1 validation accuracy and 94% top-5 accuracy, surfacing Top-5 predictions to users.
- Implemented a Flask inference API with 113 ms CPU latency and 9 images/sec throughput.

**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 with heuristic keyword grouping and React visualization.

**JalVeda — IoT-Based Water Quality Monitoring (Prototype)** 2024

Arduino Uno, Embedded Systems, Python

- Built an Arduino Uno-based prototype to monitor TDS and turbidity with periodic sensor sampling.
- Implemented reference-based calibration and multi-sample averaging to reduce analog sensor noise.
- Focused on lab-scale validation and embedded data preprocessing for reliable readings.

## 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