

BHARATHULA VENKATA VAIBHAV RAM

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AI/ML Engineer skilled in Python, FastAPI, LLM APIs, TensorFlow, and machine learning, with hands-on experience building full-stack AI applications through academic and personal projects.

TECHNICAL SKILLS

Languages: Python, SQL, Java, JavaScript, C

AI/ML: XGBoost, TensorFlow, EfficientNet, Transfer Learning, Model Evaluation, Hyperparameter Tuning

GenAI/LLM: LLM API Integration (Google Gemini), Prompt-Based Conversational AI, Agentic AI Workflows, AI-Assisted Development (Claude, GitHub Copilot)

Backend: FastAPI, Spring Boot, REST API Design, Node.js, Express.js

Databases: SQL, MySQL, DuckDB, SQLite, Firebase Firestore

Tools & Practices: Git, GitHub, Version Control, Object-Oriented Programming, SDLC, Clean/Modular Code, Debugging & Bug Fixing

EDUCATION

Institute of Aeronautical Engineering, Hyderabad

Aug 2023 – May 2027

Bachelor of Technology (B.Tech), Information Technology

CGPA: 8.26/10

PROJECTS

AetherAI – Environmental Intelligence Platform

FastAPI, Python, XGBoost, Gemini API, React

- Built a full-stack AI platform exposing **7 REST API endpoints** (FastAPI) for AQI prediction and simulation, powered by an XGBoost regressor trained on **365 days** of data across **9** features, achieving **94.2% model confidence**.
- Integrated the Google Gemini 1.5 Flash LLM API to power a conversational assistant for natural-language queries and automated PDF report generation, alongside the Open-Meteo Geocoding API for global city coverage.

CricSphere – Java Spring Boot Analytics Platform

Java, Spring Boot, REST API, SQL/DuckDB,

React.js

- Built a Spring Boot REST API backend serving cricket analytics across **22,007+ matches** and **12,000+ player profiles**, with a DuckDB/SQL serving layer over **16 Parquet datasets** for low-latency analytics queries.

EXPERIENCE

Deep Learning Intern, Central Institute of Tool Design (CITD)

May 2025

- Built and optimized an EfficientNet-based image classification model using TensorFlow and transfer learning on **11,000+ images** across **50 categories**, achieving **80% classification accuracy** through hyperparameter tuning, data augmentation, and iterative experimentation.
- Collaborated on model evaluation, documented training workflow and architecture, and improved reproducibility for deployment and future iterations.

ACHIEVEMENTS & CERTIFICATIONS

- **Salesforce Agentblazer Champion 2026** (Trailhead – agentic AI & AI-assisted workflows); **97th Percentile**, Naukri Campus Young Turks 2025.
- **IBM SkillsBuild: AI Fundamentals** · **OCI Foundations Associate** · **AWS Academy: Data Engineering**