Irakam Siva Venkata Bhanu Prakash

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Career Objective

Machine Learning Engineer & Data Scientist | Skilled in Computer Vision, Transfer Learning, and Research-Driven AI Applications. Learning New Technologies in the Domain of AI.

Education

2022–2026 **B.Tech, CSE** JNTUA College of Engineering, Pulivendula **CGPA**: 7.7 / 10.0

2020–2022 **Intermediate (M.P.C.)** Narayana Junior College, Gudur BIEAP—**Grades**: 9/10.

2019–2020 **High School** Prospero English Medium High School BSEAP—**Marks**: 566 / 600.

Experience

May 2025 - June 2025 | **AI/ML Intern** SmartBridge

Developed **HematoVision**—a TensorFlow/Keras, transfer-learning pipeline for blood-cell classification; applied augmentation, fine-tuning, and evaluation (ROC/PR/CM), achieving **85.3% validation accuracy**, and delivered it as a SavedModel with Git-tracked documentation.

Projects

TeleMedicine Pro GitHub

- Led TeleMedicine-Pro for video/phone consults, secure messaging, and vitals.
- Built end-to-end workflows: triage, scheduling, consults, follow-up..
- Implemented encryption, RBAC, and audit logging for patient data.
- Prioritized clinician needs and ATS keywords (telemedicine, EHR, remote monitoring).

HematoVision—Advanced Blood Cell Classification GitHub

- Fine-tuned MobileNetV2 on 12.5k augmented blood-cell images—85.3% validation accuracy.
- Packaged model `blood_cell.h5` and deployed a Flaskpredict API for low-latency single/batch inference.
- Implemented preprocessing, augmentation (rotate/scale/flip), & batching; trained with Adam and validated via confusion matrices and per-class accuracy.

News Analyzer GitHub

- Ingested news from Google and Bing with intelligent fallback scraping to ensure near-100% coverage.
- Implemented 5 REST endpoints: `/news`, `/scrape`, `/analyze`, `/tts`, and `/audio` with CORS, input validation, and API-key authentication.
- Built NLP pipelines: VADER + DistilBERT sentiment, BART summarization, TF-IDF + spaCy NER, and topic extraction.
- Streamlit dashboard with bilingual (English & Hindi) TTS and real-time Plotly visualizations.

Skills

Technical: Python, NumPy, Pandas, scikit-learn, TensorFlow/Keras, Hugging Face, SQL (MySQL), Flask, FastAPI, Streamlit, Model Optimization, LLM, RAG, Prompt Engineering, LangChain, LangSmith.

Tools & Dev: Git, GitHub, REST API design, CORS, and API-key authentication.

Soft Skills: Data-driven decision-making, clear verbal communication, teamwork, adaptability, and analytical thinking.

Certifications & Courses

- Python Basics for Data Science (IBM, edX)
- Analyzing Data with Python (IBM, edX)
- Visualizing Data with Python (IBM, edX)
- SQL for Data Science (IBM, edX)
- NPTEL: Introduction to Machine Learning
- Deep Learning with TensorFlow

Hackathons & Competitions

- Participated in the Google Cloud Agentic AI Hackathon focused on LLM-driven autonomous agents and cloud-integrated orchestration workflows
- Participated in the Hacktoberfest Hackathon at Draper Startup House, Hyderabad (Organized by DigitalOcean)
- Selected—State-Level Buildathon by NxtWave & OpenAI (Scheduled: Nov 1 & 2, 2025)

Leadership & Achievements

- Led a 3-day Generative AI workshop for 30 students covering Prompt Engineering, RAG, and LLM workflows during CSE Department Fest "Sarvagnya"

Interests

- Generative AI & Foundation Models
- Multimodal & Transformer Architectures
- MLOps & AutoML
- Agentic AI & Intelligent Agents

Last updated: October 26, 2025