

MANO PRASAD V

Chennai, India | manoprasadvs@gmail.com | +91-8072222841 | github.com/manoprasad2006 |
linkedin.com/in/mano-prasad-v-3191782a2 | manodev7.netlify.app | leetcode.com/u/saybye_

Summary

AI/ML Engineer (B.Tech AI & ML, GPA 8.00/10) with production experience in Computer Vision and NLP. Proficient in end-to-end deep learning model development — from data preprocessing and architecture design to optimization and deployment using PyTorch, TensorFlow, and GCP. Top-5 Smart India Hackathon 2024 finalist; Seeking SDE Intern / AI-ML Engineer roles at innovative technology companies.

Technical Skills

Languages	Python, C, Java, JavaScript
ML Frameworks	PyTorch, TensorFlow, TF Lite, Scikit-learn, XGBoost, OpenCV, NumPy, Pandas, FAISS
ML Concepts	CNN, Transfer Learning, Object Detection (YOLOv5/v8), Image Classification, RAG, Semantic Search, Model Optimization, Prompt Engineering, Ensemble Methods, Data Augmentation
Cloud & Tools	GCP (Vertex AI, Compute Engine, Cloud Storage), Docker, Git, GitHub, Firebase, Supabase

Education

B.Tech — Artificial Intelligence & Machine Learning 2023 – 2027
Rajalakshmi Engineering College, Chennai | GPA: **8.0 / 10.0**
Coursework: Machine Learning, Deep Learning, Computer Vision, NLP, Data Structures & Algorithms, Linear Algebra, Probability & Statistics, DBMS

Experience

AI / ML Engineer Intern | Viskamnix Technology, Chennai July 2025 – Aug 2025

- Designed and deployed a real-time object detection system using YOLOv5/YOLOv8 on live video streams for an AI-based indoor elderly assistance application focused on mobility safety.
- Optimized GPU inference pipeline achieving **40–60 FPS** with **sub-100ms latency** via model quantization, batching, and hardware-aware tuning — improving throughput by ~30%.
- Integrated a TTS alert module to proactively notify users of detected hazardous obstacles; delivered production-ready prototype within 3 months across data collection, model iteration, and edge deployment.

Projects

Agricultural Leaf Disease Classification *PyTorch · ResNeXt · EfficientNet · DenseNet · XGBoost · Kaggle*

- Built a multi-class image classifier across 20 imbalanced categories; applied transfer learning, stratified K-fold CV, focal loss, and TTA to improve generalization on skewed data.
- Engineered a CNN+XGBoost ensemble pipeline under GPU memory constraints, achieving **0.959+ F1-score** — top competitive rank on the Kaggle leaderboard (PALS Innowah competition).

ASFR — Face Liveness & Anti-Spoofing Detection *TensorFlow Lite · OpenCV · CNN · Firebase*

- Developed a CNN-based liveness detection pipeline with OpenCV preprocessing; compressed model to < 5 MB via TF Lite for **80ms inference** at ~92% accuracy under real-world lighting.
- Integrated liveness module into a Firebase-backed browser authentication flow enabling secure, low-latency user verification without server-side processing.

LawGPT — AI-Powered Legal Assistant *RAG · FAISS · LLM · Python*

- Built an end-to-end RAG pipeline with FAISS semantic search for contract analysis, legal Q&A, and clause-level risk detection over large legal document corpora.
- Designed structured JSON output schemas supporting downstream API integrations, audit trails, and external legal tooling — reducing manual legal review time significantly.

Achievements & Certifications

- Smart India Hackathon 2024** — Top 5 Finalist | **PALS Turbotech Hackathon 2025** — 2nd Place Winner
- Google Cloud SkillBoost | Workato Automation Pro I & II | Google Professional ML Engineer (*In Progress*)
- LeetCode** — Solved 100+ problems across Data Structures & Algorithms