HARIPRASAADH K

hari.kdh7376@gmail.com linkedin.com/in/hariprasaadh-k-a5430a287
github.com/Hariprasaadh hariprasaadh.vercel.app

Passionate AI/ML developer with strong foundations in Data Structures and Algorithms and a deep understanding of core machine learning principles. Skilled in designing and deploying intelligent agents, machine learning models, and Generative AI systems. Experienced in building end-to-end, cloud-native AI solutions with practical, scalable implementation across research and product environments.

Education

Vellore Institute of Technology Aug 2023 – May 2027
B.Tech in Computer Science (AI and ML) CGPA: 9.62

PS Senior Secondary School, Mylapore 2023
Grade 12 Percentage: 94.4%

Technical Skills

Languages: C++, Python, Java, Javascript, Typescript, SQL
Frameworks: Tensorflow, Langchain, LangGraph, FastAPI, React.js, Next.js
Tools: Git, Github, Postman, Power BI, Figma
Cloud and Cloud native: AWS, Docker
Soft Skills: Leadership, Event Management, Public Speaking, Logical thinking

Experience

Samsung R&D Institute, Bangalore — PRISM Intern **July 2025 – Jan 2026**

- Developed **AI-driven agentic orchestration** and automation workflows, integrating **MCP** and **A2A** communication protocols for seamless multi-agent collaboration.
- Designed and deployed intelligent features across **cloud** and **mobile platforms**.

Annam.ai — Project Intern **May 2025 - Aug 2025**

- Contributed to *Agronome*, a smart agriculture platform for Indian farmers.
- Built an **RAG-based Agentic Chatbot** integrating LLMs with structured retrieval for context-aware recommendations, developed **Computer Vision models**, and integrated the backend with the frontend using **FastAPI**.

Projects

DeepRetrieve — FastAPI, CLIP, Qdrant, MCP, Gemini

- Built an **agentic multimodal RAG system** enabling semantic search over **text, images, and tables** in PDFs using CLIP embeddings.
- Applied **MCP-based tool orchestration** with intelligent web fallback and **binary-quantized Qdrant vectors** achieving **8x memory efficiency**.

Crop-Core Tech — TensorFlow, FastAPI, React Native, YOLO

- Built an **end-to-end computer vision pipeline** using YOLOv11 and EfficientNet, achieving 90%+ accuracy in real-time disease detection.
- Deployed **FastAPI-based inference APIs** for secure, low-latency mobile integration.
- Implemented a **market analytics module** for real-time price prediction and trend forecasting.

Achievements

- **Reliance Foundation Undergraduate Scholar 2023**: Selected as one of the top 5000 individuals out of a competitive pool exceeding 300,000 applicants.
- **AI/ML Batch Rank Holder**: Secured **Rank 6** among 600+ peers in B.Tech CSE (AI & ML) with a CGPA of 9.62.
- **Published Patent – System for Farm Management**: Published under the Indian Patent Office for an AI-driven smart agriculture system enabling real-time monitoring and informed crop decisions.

Certifications

- Data Analysis with Python (IBM) February 2024
- Machine Learning Specialization (Standford University) July 2024
- Computer Vision and Image Processing (IBM) August 2024
- Generative AI with Large Language Models (AWS) February 2025