

HARIKRISHNA K

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 harikrishna.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, Model Context Protocol(MCP), React.js, Next.js

Tools: Git, Github, Postman, Figma, Visual Studio Code

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 – Present
• Developing AI-driven agentic orchestration and automation workflows, integrating MCP and A2A communication protocols for seamless multi-agent collaboration.	
• Designing and deploying intelligent features across cloud and mobile platforms .	

Annam.ai — Project Intern	May 2025 - Aug 2025
• Contributed to <i>Agronomer</i> , 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

CareerTrack — LangChain, TensorFlow, Next.js 

- Designed and implemented an **AI-powered ATS Resume Matcher** that parses job descriptions and evaluates resumes with 90%+ accuracy, improving candidate-job alignment and decision efficiency.
- Built a modular, **production-ready AI pipeline** encompassing data preprocessing, model evaluation, and deployment for scalable cloud integration.

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 (Stanford University)	July 2024
Computer Vision and Image Processing (IBM)	August 2024
Generative AI with Large Language Models (AWS)	February 2025