K HARIPRASAADH

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Proficient in AI/ML, computer vision, and competitive programming with expertise in C++, Java, and Python. Skilled in developing machine learning models using TensorFlow and Scikit-learn, with experience in RAG and AI Agents. Experienced in designing algorithms, building AI-driven solutions, and web development.

Education

Vellore Institute of Technology Aug 2023 – May 2027
B.Tech in Computer Science (AI and ML) CGPA: 9.64

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

Technical Skills

Languages: C/C++, Python, Java, Javascript, SQL
Frameworks: Tensorflow, Keras, OpenCV, Hugging Face, Langchain, LangGraph, FastAPI
Tools: Git, Github, Figma, Visual Studio Code
Cloud and Cloud native: AWS, GCP, Docker, Kubernetes
Soft Skills: Leadership, Event Management, Public Speaking, Team Management, Logical thinking

Experience

Open Source Programming Club
AI & ML Lead Chennai, India

- Led the development of AI-based solutions, ensuring the integration of cutting-edge technologies and fostering a collaborative, learning-driven environment.
- Directed collaborative projects and workshops, promoting open-source innovation and enhancing the club's technical impact.

Projects

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

- Real-Time Disease Detection: Integrated YOLOv8-based deep learning models for rapid detection of plant diseases and pests through high-resolution imagery, enabling proactive intervention and minimizing crop loss.
- Crop Yield Prediction: Developed predictive models using supervised learning, leveraging historical and real-time environmental data to forecast crop yields and optimize resource allocation.
- ML-Driven Crop Recommendation: Developed a machine learning algorithm to recommend optimal crops based on soil conditions, climate data, and previous yields, boosting farm productivity.

CareerTrack — Langchain, TensorFlow, Qdrant, GroqCloud, React

- AI-based web application providing personalized course and job recommendations, while supporting students' mental health and well-being.
- Integrated GenAI-driven chatbots and recommendation systems with RAG (Retrieval-Augmented Generation) and Agentic AI to offer real-time, tailored educational guidance and career advice based on individual interests and performance.

Achievements

- **Reliance Foundation Undergraduate Scholar 2023**: Selected as one of the top 5000 individuals out of a competitive pool exceeding 300,000 applicants.

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