Harish Vijayasarangan

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linkedin / github

Skills

Languages: Python, SQL, JavaScript

Technologies & Tools: AWS, EC2, PyTorch, TensorFlow, Fine-tuning, MCP, AI agentic frameworks, LLM, Git, GitHub, Docker, Image Segmentation, Jenkins, DevOps CI/CD pipeline, RAG, Vector databases, Kubernetes, REST APIs, WebSockets, Nginx, Postman, Anaconda, Flask, FastAPI.

Project Work

RetinAI :

Developed a full-stack machine learning platform for detecting diabetic retinopathy using retinal fundus images. Architected a decoupled system where the ML model is hosted independently on a FastAPI server, exposing REST APIs for inference.

DSA-Finetune :

Fine-tuned(LoRA) Llama 3.1 8b with an alpaca dataset with 20k rows to solve DSA problems with Python. My Model has gotten 200+ downloads in Hugging Face.

DST :

A website with a custom enterprise chatbot built using a vision model (Llama 3.2) with custom knowledge, built using Flask and JavaScript to provide an interactive user experience dealing with EEG scent interference .

Work Experience

Sri Sairam Techno Incubator Foundation, Chennai   Feb 2025 - Present

Research And Development Intern

- Developed and scaled an Three-Tier Architecture for a production-grade application.
- Deployed the application on AWS EC2 and DigitalOcean droplets for better scalability.
- Performed fine-tuning on pre-trained models to optimize domain-specific performance.

Securden, Chennai   Jun 2024 - Jul 2024

SDE Intern

- Automated credential management via Jenkins CI/CD and API, streamlining creation, update, and deletion processes.
- Built custom Jenkins Pipelines for job automation and user management; improved DevOps efficiency.

Education

Sri Sairam Institute of Technology

B.E. in Computer Science and Engineering

Global Certifications

Red Hat Certified System Administrator (RHCSA)   Expires Mar 2027