

# Addepati Anusha

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## Education

CVR College of Engineering

Hyderabad, IN

Computer Science and Engineering (Artificial Intelligence and Machine Learning)

Dec 2021–Expected May 2025

## Technical Skills

**Programming Languages:** Python(NumPy , Pandas, scikit-learn), Java, C, JavaScript.

**Frameworks and Tools:** PyTorch, TensorFlow, Hugging Face Transformers, NLTK, OpenCV, Generative AI SDKs, OpenAI/Swarm, LangGraph, FAISS, Git.

**AI/ML:** LLMs, Agentic Systems, text analytics, Generative AI, Machine Learning, Pre-trained Models Fine-Tuning, Deep Learning Models, Neural Networks, Computer Vision, Langchain, Retrieval-Augmented Generation .

**Database Management:** MongoDB, SQL Server, MariaDB.

## Soft Skills

Communication, Adaptability to new technologies, Creativity in Designing AI Solutions, Collaboration, Problem-solving, Analytical thinking.

## Key Projects

- **Visual Data Interpreter:**
- Developed an AI-powered image processing system using Ollama (**Qwen2.5**) for intelligent text extraction, OCR, and AI-driven summarization. Integrated FAISS, LangChain, PyTorch (ResNet-50), and OpenCV to enhance accuracy, retrieve relevant insights, and generate context-aware responses.
- **LLaVA-Med-v1.6:**
- Visual-Instruction finetuned LLaVA-v1.6 and Significantly outperformed **Microsoft's LLaVA-Med** model using **Low-Rank Adaptation (LoRA)**.
- **Intelligent Kitchen Assistant: From Ingredient Detection to Recipe Suggestion**
- Developed an Intelligent Refrigerator Assistant utilizing YOLOv10 for real-time object detection, OPENAI API for query processing, and Supabase for vector-based recipe suggestions.
- Technology Used: Python, OpenAI API, Deep Learning, OpenCV.

## Experience

- **Safertek Inc** Feb 2025- Present
  - Experienced in designing and optimizing backend systems with a focus on SQL, data handling, and performance optimization for scalable business-to-business solutions.
- **GrayLogic Technologies** Jan 2024- Jun 2024
  - Collaborated on the development of a fitness tracker application, utilizing Python, Mediapipe, and Flask to implement real-time activity recognition and optimize backend services. Applied AI techniques to enhance tracking accuracy and system performance.
- **AI-ML Virtual Internship** Jul 2024-Sep 2024
  - Gained experience in implementing machine learning algorithms, neural networks, and computer vision techniques through practical projects.
- **EndNow Foundation- Promoting Digital Safety, Ethics& Wellbeing** Hyderabad, IN
  - Organized SociaWood- Social Media Influencer Summit 2024–II July 2024– July 2024
- **Cyber Yodha 2.0 (Rachakonda Police Commissionerate)** Dec 2022 – Apr 2023
  - During involvement with Cyber Yodha 2.0, a cybercrime awareness and investigation initiative, gained insights into cyber attack methodologies and law enforcement procedures. Assisted in guiding victims through the process and played a role in raising awareness in rural communities about cybersecurity threats.

## Achievements and Certificates

- **AWS Academy Graduate - AWS Academy Machine Learning Foundations :**
  - Earned from Amazon Web Services (AWS), demonstrating a solid foundation in Machine Learning concepts and proficiency

in utilizing AWS services for implementing machine learning solutions.

- **NPTEL (National Program for Technology Enhanced Learning) :**
  - Earned a certification and a Silver Badge in Python for Data Science from the Indian Institute of Technology Madras.
- **Hackxcelerate 2024 National Hackathon:** 5<sup>th</sup> position and were honored with special mention from Microsoft.