

# Govardhanagiri Hari Charan Reddy

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## PROFESSIONAL SUMMARY

AI/ML and Full-Stack Developer with hands-on industry experience building intelligent systems and scalable web applications. Skilled in Python, React, FastAPI, and modern AI frameworks including LangChain and RAG pipelines. Passionate about solving real-world problems through software and automation.

## TECHNICAL SKILLS

**Languages:** Python, C, JavaScript, Java (Basics)

**Frontend:** React.js, HTML5, CSS3, Tailwind CSS, Vite

**Backend:** Flask, FastAPI, REST APIs, Uvicorn

**AI/ML:** LangChain, RAG, ChromaDB, HuggingFace, Gemini API, Whisper, gTTS

**Tools:** Git, GitHub, Streamlit, Postman, VS Code

**Concepts:** Data Structures, OOP, Problem Solving, Full Stack Development

## EXPERIENCE

### AI/ML Intern – Tech Zita Innovations

Present

- Developing AI/ML solutions for real-world business use cases
- Performing data preprocessing, model training, and optimization
- Building REST APIs to integrate ML models into applications
- Working with LLMs, automation workflows, and intelligent analytics tools
- Collaborating with cross-functional engineering teams

### Teach Lead Intern – Viswam.AI (IIIT Hyderabad — Swecha — Meta)

May 2025 – July 2025

- Selected for Summer of AI program focused on foundational AI and LLM research
- Led AI learning sessions and mentored intern teams
- Contributed to data collection, preprocessing, and model development workflows
- Worked in open-source and collaborative research environments

## PROJECTS

### AgroBot – AI Farming Assistant

- Built full-stack AI assistant using React + Flask + Google Gemini
- Provides multilingual crop advice, pest control guidance, and disease detection
- Integrated speech-to-text (Whisper) and text-to-speech for voice interaction
- Designed for real-world agricultural usage and live demonstrations
- GitHub Repository

### Smart Travel Budget Planner (RAG-based)

- Developed AI travel planner using LangChain and ChromaDB vector search
- Implemented semantic retrieval using HuggingFace embeddings
- Real-time itinerary generation and budget calculation
- Built backend with FastAPI and frontend using HTML/CSS/JS and Streamlit
- GitHub Repository

## EDUCATION

### B.Tech – Electronics and Communication Engineering

Minor in Artificial Intelligence & Machine Learning

Nalla Malla Reddy Engineering College, Hyderabad

2023 – Present

## LEADERSHIP & STRENGTHS

- Strong analytical and problem-solving mindset
- Fast learner with hands-on project execution experience
- Experience mentoring teams and leading technical sessions
- Passionate about open-source and real-world AI solutions