

NIVAS MIDIDHODI

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Trainee Software Engineer specializing in Agentic AI and Intelligent System Design, skilled in developing, integrating, and deploying AI-powered full-stack applications using modern frameworks

PROFESSIONAL EXPERIENCE

Zennial Pro Pvt Ltd	Sep 2025 – Present
Trainee Software Engineer	
<ul style="list-style-type: none">Designing autonomous agents with planning/reasoning capabilities, implementing tool-calling workflows for multi-step task execution, agent memory systemsBuilt multi-agent systems using LangGraph to orchestrate task delegation, shared memory, and failure recovery, enabling reliable autonomous workflows in SaaS environmentTech Stack: Python, FastAPI, LangChain, LangGraph, Gemini/OpenAI APIs, Vector DBs, RAG.	
ASR Tech	Mar 2025 - Aug 2025
Software Engineering Intern - Full Stack	
<ul style="list-style-type: none">Developed role-based authentication and multi-tenant SaaS architecture using React and REST APIsOptimized performance through code-splitting and lazy loading , reducing page load time by 35%Tech Stack: React.js, React Hooks, REST APIs, Git/GitLab.	
Ekincare	Jul 2024 - Nov 2024
Intern - Operations	
<ul style="list-style-type: none">Managed backend data operations through CRM dashboards, improving data accuracy by 25%.	
Oculus Regenerus Biotechnologies Pvt Ltd	Mar 2024 - Jul 2024
Intern - Research & Data Operations	
<ul style="list-style-type: none">Implemented ML-based image classification pipeline using OpenCV and Python, improving diagnostic accuracy by 12%Automated data preprocessing workflows for ophthalmic research datasetsTech Stack: Python, Excel, Machine Learning, OpenCV, Data Preprocessing	

EDUCATION

Malla Reddy Institute Of Engineering and Technology (JNTUH)	2020-2024
B.Tech in Computer Science and Engineering	

CGPA : 7.3

TECHNICAL SKILLS

- Agentic AI & LLMs: LangChain, LangGraph, RAG, Autonomous Agents, Agent Memory, Tool/Function Calling, Prompt Engineering.
- Programming Languages : Python, Java, JavaScript/React
- Backend & APIs: FastAPI, REST APIs, WebSocket (Real-time Communication), Async Programming.
- Databases : MongoDB, Vector Databases(FAISS / Chroma), MySQL
- Cloud & DevOps: Cloudflare R2, Docker, Git/GitHub, Vercel
- Tools : Postman, LangSmith, Jupyter, VS Code

PROJECTS

AI Interviewer - Voice Agent System

- Architected a production-grade voice-based autonomous interview agent, reducing response latency to <3s using WebSockets and async FastAPI while maintaining multi-turn conversational memory across sessions.
- Implemented context-aware resume analysis agent using FAISS-based semantic search and structured tool outputs (Pydantic), achieving 90%+ response relevance and reducing irrelevant follow-up questions by 85%.
- Tech Stack: FastAPI, React, MongoDB, Deepgram AI, Groq LLM, WebSockets, Cloudflare R2

Big Mart Sales Prediction (Predictive Analytics)

- Developed predictive analytics model using Ridge Regression with comprehensive feature engineering, achieving 15% R² improvement through hyperparameter tuning and data scaling
- Tech Stack: Python, Scikit-learn, Pandas, Matplotlib

Bone Tumor Detection - Deep Learning Classifier

- Designed CNN-based medical imaging classifier achieving 85% accuracy with SVM ensemble and TensorFlow optimization
- Tech Stack: Python, TensorFlow, OpenCV, Scikit-learn

CERTIFICATIONS

- ChatGPT Prompt Engineering for Developers - DeepLearning.AI (Apr 2024)
- Introduction to Large Language Models - Google Cloud (Sep 2023)
- Agile Explorer - IBM SkillsBuild (Oct 2025)
- Python Essentials 2 - Cisco Networking Academy (Jun 2023)
- Machine Learning - Bharat Intern (Jul 2023)

ACHIEVEMENTS

- 5-star HackerRank rating in Python, Java, and SQL demonstrating strong algorithmic problem-solving
- Led team of 4 in academic projects, managing full development lifecycle from design to deployment

RESEARCH INTERESTS

- Artificial Intelligence & Machine Learning
- Agentic Systems
- Natural Language Processing
- Cloud Computing