

Pardhasaradhi Reddy Karnati

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EDUCATION

Sathyabama Institute of Science and Technology, Chennai, India
Bachelor of Engineering in Computer Science

2021 – 2025

WORK EXPERIENCE

AVOI (AI Startup)

2025 – Present

AI Engineer (Core Team) — Python, LiveKit, WebRTC, Docker, Kubernetes, OpenAI, AWS, Nginx, Linux

- Built production-grade AI systems for insurance and hospitality, including multimodal voice-vision agents deployed to real users.
- Engineered a real-time **Insurance AI Agent** with scratch detection, IMEI validation, OCR ID checks, and automated KYC decisions.
- Developed **sub-200ms latency** pipelines using LiveKit and WebRTC for real-time inspections and hotel-service automation.
- Deployed microservices using Docker, Kubernetes, AWS EC2, and Nginx; built CI/CD workflows and system monitoring.
- Implemented secure **session recording pipelines** for voice and vision agents to support auditing and future model tuning.

HCL Technologies, Chennai, India

AUG 2023 – DEC 2023

Project Intern — JavaScript, HTML/CSS, SQL

- Contributed to full-stack UI development and backend integration using JavaScript, HTML/CSS, and SQL.
- Assisted with feature implementation, debugging, and coordination in Agile development teams.

TECHNICAL SKILLS

Programming: Python, JavaScript, C

AI & ML: LiveKit Agents, LLMs, LangChain, OpenAI API, Gemini API, OCR, Computer Vision, scikit-learn

Systems & Cloud: WebRTC, Node.js, Express, Nginx, Linux, Docker, Kubernetes, AWS EC2, CI/CD, VPS Deployment

Databases & Tools: MongoDB, SQLite, Git, Firebase, Streamlit

PROJECTS

Insurance AI Agent (Real-Time Multimodal System)

Python, CV, OCR, WebRTC

- Developed an AI agent performing scratch detection, IMEI verification, OCR ID checks, and automated KYC decisions.
- Integrated vision, OCR, and LLM reasoning with real-time voice guidance for insurance inspections.

Marigold Hotels Voice Assistant

Python, LiveKit, WebRTC, Docker

- Built an autonomous voice assistant that enables guests to order food, request services, and trigger hotel workflows.
- Deployed on VPS using Docker + Nginx with **sub-200ms** streaming latency and reliable session handling.

AI Travel Planner (Final Year Project)

React, Firebase, Gemini API

- Built an AI-powered travel planner generating personalized itineraries; deployed on Vercel with Auth0 authentication.

LEADERSHIP & ACHIEVEMENTS

- Active contributor at Google Developer Student Club (GDSC).
- Served as Class Representative for 4 years, coordinating academics and student activities.
- Certifications: Google Generative AI, CDAC Cloud Computing (AWS), Deep Learning, ML with MATLAB.