

# Pardhasaradhi Reddy Karnati

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## EDUCATION

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

2021 – 2025

## WORK EXPERIENCE

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### 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

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**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

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### 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

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- 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.