

# SAHIL PANINDRE

Senior AI Engineer | Generative AI | LLM | RAG | MLOps | AWS/GCP

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Open to relocate | Visa sponsorship required

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## Professional Summary

AI Lead with 7+ years of experience delivering large-scale AI systems, including multi-agent LLM platforms serving 50M+ users. Expertise in Generative AI, RAG, and ML architecture, with strong experience in MLOps and cloud deployment (AWS, GCP).

## Core Skills

### Artificial Intelligence & AIOps

- Generative AI, LLM Systems, RAG, LangGraph, Langchain, Google ADK, NLP & Transformers, Computer Vision, Multi Agent Systems, OCR, Redis, Postgres, Websockets, SSE, Pipecat, Livekit

### ML Engineering & MLOps

- PyTorch, TensorFlow, CI/CD for ML, Docker, Kubernetes, Model monitoring

Frontend: React, Nextjs, Streamlit, Gradio

### Backend & Infrastructure

- Python, FastAPI, Flask, SQL, Graph Databases, Redis, PostgreSQL, MongoDB, Supabase

### AI System Architecture

- Multi-Agent AI Systems, LLM orchestration (Agentic AI, LangGraph), Vector databases, Google Agent Development Kit (ADK), AI workflow automation, Model optimization & inference scaling, Model armors, AI observability

### Cloud Platforms

- AWS, GCP, Cloud Run, GKE, AWS Bedrock, Data Lake & Athena

## Professional Experience

### Band II Manager Artificial Intelligence, Jio Financial Services

Jun 2025 - Present

- Built & launched Jio Financial's **multi-agent AI chatbot** from scratch, scaling to **50M+ users** through end-to-end architectural design, development and deployment.
- Developed **Input & output armor** for chatbot **which is performing better than google armor**.
- Designed RAG-based knowledge retrieval pipelines using **Vertex AI** rag engine.
- Led enterprise GenAI workflow automation systems reducing operational workload by 80%.
- Implemented enterprise LLM infrastructure with **AWS Bedrock, Vertex AI & Google Cloud**.
- Lead Development and Testing with engineering teams from **Google & McKinsey** on AI chatbot.
- Engineered LLM evaluation framework** using automated simulations for validating process for chatbot accuracy and reliability.

### AI Lead, Indian Tec Solutions

Oct 2023 - Jun 2025

- Indian Tec Solutions is a provider of scalable Generative AI solutions to the businesses. Managed & **led dynamic team of 10 individuals**, fostering collaboration, innovation & excellence in delivering impactful **Computer vision & AI** solutions. Collaborated closely with clients.
- Worked on **Generative AI** with **LLM** models & **LangChain, Lang graph, Livekit** with **Redis**.
- Built **Voice enabled Agentic AI** systems with **Pipecat & Livekit**. Built inbound and outbound automated call framework which **reduced 65% manual effort** for home rental enquiries.

- Developed ML systems for **fintech credit decisioning and customer analytics**.
- Built **AI-based customer support automation framework** that handled **97% of queries automatically**.
- Implemented fraud detection models and predictive risk scoring pipelines.
- Designed scalable APIs using **FastAPI**.
- Managed ML model deployments on **AWS infrastructure with Docker-based pipelines**.

- Built AI-driven **insurance claim automation system** reducing claim processing time from **4–5 hours to 5 minutes**.
- Designed **AI damage assessment models for car insurance underwriting**.
- Developed **identity verification and KYC automation system** reducing verification time from **20 minutes to 1 minute**.
- Led development of **3D car reconstruction AI system** for insurance analytics.

- Built computer vision algorithms for **robotic automation systems** used in industrial manufacturing.
- Designed AI system for **6-DOF robotic arm automation**, reducing manufacturing cycle time by 2 hours daily.
- Developed **IoT-based agricultural automation system** for water sprinkler control.

## Key AI Projects

### Jio Financial AI Assistant

- Built scalable **multi-agent LLM assistant** Integrated into **financial super app**, serving **50M+ users**.

### AI Customer Support Automation

- Developed AI email and chat automation system that resolved **97% of support requests without human intervention**.

### Insurance Claims Damage Detection

- Computer vision based system for automated **vehicle damage detection and insurance claim processing**.

### Smart KYC Verification System

- AI system for **identity verification and document validation** used by financial institutions across India and Indonesia.

### Document Question Answering System

- Multi-modal AI framework combining **text, layout, and image features** to answer questions from documents.

### ResearchGPT

- Large-scale data enrichment system indexing **270M research papers** using distributed scraping and Elasticsearch pipelines.

## Awards, Research & Leadership

- **Indian Air Force Mehar Baba Prize** - Swarm Drone Competition
- Conducted robotics and **AI workshops for 300+ engineering students**. Organized technical events on robotics, AR, and machine learning.
- Published research paper in **International Journal for Interdisciplinary Innovative Research and Development** on technology applications in health and energy sectors.