Rujhan Jain

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SUMMARY

Senior AI/ML Engineer with experience building end-to-end AI platforms and SaaS products across Computer Vision, Generative AI, and Agentic AI systems. Promoted within 14 months for owning solution architecture, AI workflows, and deployments. Represented Nupeak at **GITEX Dubai 2025**, presenting SAS- and AI-driven solutions. Strong focus on applied AI, product design, and scalable system development.

EXPERIENCE

Nupeak IT Services Pvt. Ltd. **Feb' 2024 - Present**

- **Sr. AI/ML Developer**

  (AI Platforms | Agentic AI | Solution Architecture | Client Engagement)

Promoted within 14 months for ownership of end-to-end AI systems, spanning solution architecture, AI development, cloud infrastructure, and deployment.

- Leading development of an AI workflow platform, acting as founder-level owner across product design, backend services, cloud architecture, DevOps, AI pipelines, and full-stack integration.
- Architecting a SaaS Agentic AI platform for HRMS, owning AI system design, LLM workflows, cloud infrastructure, and backend services while collaborating with frontend teams.
- Designed computer vision systems for manufacturing and healthcare, including AI model development (YOLO, Mediapipe), hardware and throughput planning, and real-time inference pipelines.
- Designed and prototyped agentic AI solutions for logistics and HR use cases, integrating LLMs, RAG, LangGraph, and real-time APIs, and contributing to system design discussions for production-grade platforms.
- Represented the company at GITEX Dubai 2025, presenting SAS and AI solutions to enterprise and global stakeholders of various domains.

- **AI/ML Developer**

  (Computer Vision | Generative AI | LLM Agents | SAS Viya | End-to-End Delivery)

Delivered AI & SAS projects across Computer Vision, Generative AI, and AI agents, managing the lifecycle from client requirements to deployment.

- Built private LLM agents for government clients using secure, on-prem infrastructure.
- Developed Generative AI solutions for data analysis and visualization using Gemini, FastAPI, and web UIs.
- Architected a computer vision system for pharmaceutical inspection achieving 95% defect detection accuracy.
- Supported production AI initiatives including RFPs, demos, and technical documentation.
- Contributed to data-driven pilot solutions using SAS Enterprise Guide, SAS Viya, and Visual Analytics to streamline customer reporting in secure environments.

SKILLS

- **Core Expertise:** Agentic AI, Generative AI, Computer Vision, Solution Architecting, Product Engineering
- **Languages:** Python, SQL, SAS, JavaScript, HTML5, CSS3
- **Frameworks:** FastAPI, Node.js, Angular, PyTorch, YOLO, MediaPipe
- **LLMs & Tools:** LangGraph, RAG, Prompt Engineering, HuggingFace, LlamaIndex, Google Antigravity
- **Data & Infra:** Vector Databases, PostgreSQL, Docker, Continuous Integration
- **Delivery:** Solution Advisory, MVPs, Cross-Team Collaboration, Stakeholder Alignment

EDUCATION

Poornima University - 8.7 CGPA

Bachelor of Computer Applications - AI&DS

- Specialized in Artificial Intelligence and Data Science, with projects in Computer Vision, Natural Language Processing (NLP), and Audio Processing.

PROJECTS

OrchestR OSS – Agentic Workflow Tooling (Open Source)

Role: AI Architect | Lead Engineer

- ***Project Description:*** Designed a local-first, open-source developer tool for visually designing, validating, and compiling agentic AI workflows into executable Python projects, focusing on workflow semantics and inspectable execution.
- ***Role Description:*** Architected workflow models and execution semantics, designed node and state contracts for agentic systems, and built a React-based visual editor with a Python backend for local execution and project export.
- ***Key Skills:*** Agentic AI | Workflow Semantics | System Design | Developer Tooling | Python | React | FastAPI | LangGraph Concepts

Agentic AI for HRMS (SaaS)

Role: Solution Architect | AI Lead

- ***Project Description:*** Designed & currently building a SaaS-based Agentic AI platform for HRMS, enabling intelligent automation across recruitment, workforce insights, and decision support using LLM-driven agents.
- ***Role Description:*** Designed the overall solution architecture, AI system workflows, and cloud infrastructure. Led development of LLM agents, backend APIs, and data integrations while collaborating with frontend teams on product implementation.
- ***Key Skills:*** Agentic AI | HR Tech | LLM Systems | Solution Architecture | SaaS Design | Cloud Infrastructure | Backend APIs

Agentic RAG System for Cross-Dataset Querying & Fraud Analysis

Role: AI Engineer | Agentic Systems Architect

- ***Project Description:*** Built an agentic AI system to query and analyze multiple large tabular datasets with no shared keys, enabling cross-dataset investigation and fraud analysis.
- ***Role Description:*** Designed a multi-node agent workflow using schema-aware RAG for dataset selection, SQL generation, fuzzy entity resolution, and rule-based fraud detection. Implemented persistent vector memory and LLM-agnostic execution focused on correctness and explainability.
- ***Key Skills:*** *Agentic AI* | *RAG* | *LangGraph* | *Entity Resolution* | *Fuzzy Matching* | *Fraud Detection* | *Python* | *ChromaDB*

Real-Time Physiotherapy Monitoring System (Healthcare)

Role: AI Engineer | Computer Vision Lead

- ***Project Description:*** Built a real-time physiotherapy monitoring system to analyze patient posture and movement during exercises, providing continuous feedback to improve rehabilitation accuracy and effectiveness.
- ***Role Description:*** Implemented computer vision pipelines for human pose detection, temporal tracking, and movement quality analysis. Developed custom frame-to-frame logic for evaluating exercise correctness and progression.
- ***Key Skills:*** Computer Vision | Pose Estimation | Mediapipe | Real-Time Systems | Motion Analysis | PyQT5 | Python | Classical ML | Algorithm Design | Healthcare AI