

ROHIT GUSAIN

Generative AI Solutions Architect | Senior AI Engineer | Technical Program Manager

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PROFESSIONAL SUMMARY

Generative AI & Machine Learning professional with 6+ years of experience architecting and delivering enterprise AI solutions across Large Language Models (LLMs), Agentic AI, Retrieval-Augmented Generation (RAG), Computer Vision, NLP, and Data Analytics. Proven expertise in designing, developing, and deploying production-grade AI applications, including LLM-powered conversational agents, AI-driven workforce management platforms, intelligent video analytics, and enterprise business intelligence solutions. Experienced in leading end-to-end AI product development, solution architecture, cross-functional teams, and digital transformation initiatives. Currently driving AI strategy and enterprise innovation as Programme Manager at VLCC Healthcare, combining deep technical expertise with business leadership to build scalable, high-impact AI solutions on modern cloud and SaaS architectures.

TECHNICAL SKILLS

Generative AI: GPT-4, Claude, Gemini, Llama, Qwen, Prompt Engineering, AI Agents, LangChain, LangGraph, MCP, Function Calling, RAG, Vector Search

Machine Learning: TensorFlow, Keras, PyTorch, Scikit-learn, XGBoost, Time Series, Feature Engineering

Programming & APIs: Python, SQL, REST APIs, Django, FastAPI, Backend Development

Data & BI: Power BI, Tableau, Looker, Pandas, NumPy, Excel, Data Visualization, Time Series Analysis

Vector Databases & Tools: FAISS, ChromaDB (foundational), Git, Postman

Cloud & DevOps: AWS, SageMaker, Bedrock, EC2, S3, Docker

PROFESSIONAL EXPERIENCE

Programme Manager – AI & Digital Transformation | VLCC Healthcare Limited

June 2025 – Present

- **Architected and deployed SWISS**, an enterprise AI-powered video analytics platform using **YOLOv8**, **DeepSORT**, **OpenCV**, and **Python** to deliver real-time football analytics, workforce monitoring, occupancy analysis, and customer behavior insights across **175+ clinics and retail locations**, enabling data-driven operational decision-making.
- **Designed and delivered enterprise Business Intelligence solutions** by integrating **Power BI** with **SAP FI & MM**, building executive dashboards for financial, inventory, procurement, and operational KPIs that **reduced manual reporting effort by approximately 40%** and improved business visibility.
- **Architected and led the development of Geonexis**, an AI-powered **multi-platform SaaS workforce management and sales execution platform** featuring facial authentication, GPS-based attendance, beat tracking, AI-powered meeting transcription, multilingual speech processing, and real-time productivity analytics, while driving solution architecture, cross-functional collaboration, and enterprise AI transformation initiatives.

Data Analyst | SISL Infotech Private Limited

January 2025 – May 2025

- **Designed and developed an automated PDF-to-structured-data pipeline** using **Python**, **OCR**, and **document processing techniques**, enabling large-scale document digitization and structured data extraction for **CMO and PMO** offices.
- **Built and deployed scalable REST APIs** for government scheme evaluation by integrating **ARIMA** and **SARIMA** **time-series forecasting models**, ranking algorithms, and analytics pipelines to deliver data-driven policy performance insights for government decision-makers.
- **Optimized data extraction and validation pipelines**, improving structured data accuracy by **approximately 30%** through feature engineering, automated validation, and data quality enhancement.

Senior Analyst | GlobalLogic Technologies

August 2020 – February 2024

- **Contributed to Google Knowledge Panel and Search Generative Experience (SGE)** initiatives by analyzing **large-scale structured and unstructured datasets** using **SQL, Looker, statistical analysis, and data quality frameworks** to improve search intelligence and user experience.
- **Designed and maintained KPI dashboards and analytical frameworks** to monitor search data quality, identify performance trends, and deliver actionable insights that supported **Google product and engineering teams** in data-driven decision-making.
- **Automated recurring analytics and reporting workflows** using **SQL, data validation, and process optimization**, reducing manual effort by **approximately 25%** while improving reporting accuracy, operational efficiency, and data consistency across cross-functional teams.

Software Engineer – AI / NLP | Prakhar Software Solutions Private Limited

June 2019 – March 2020

- **Designed and deployed an enterprise NLP-powered HR chatbot** using **Rasa, spaCy, Python, and SQL** to automate candidate screening, interview scheduling, and HR support workflows, reducing recruiter workload by **approximately 35%** while improving recruitment efficiency.
- **Enhanced conversational AI performance** by optimizing **intent classification, entity recognition, dialogue flows, and training datasets**, improving chatbot accuracy through feature engineering, model refinement, and continuous evaluation.

KEY PROJECTS

SWISS – AI Video Analytics System

- Real-time workforce monitoring and football analytics platform built with YOLO, Deep SORT, and OpenCV; deployed across VLCC retail touchpoints for operational intelligence.

Geonexis – AI-Powered Workforce Management & Sales Execution Platform

- AI-powered SaaS platform for workforce management, featuring facial authentication, GPS-based attendance, beat tracking, AI meeting transcription, and real-time productivity analytics to improve field operations, workforce discipline, and sales execution.

Shadon – LLM-Powered Voice & Chat Assistant

- Built a multimodal AI assistant using LLM APIs and Django supporting both voice and text interaction; demonstrates applied Generative AI and conversational agent design.

HR Chatbot (Rasa NLP)

- Automated HR screening workflows using Rasa-based conversational AI with custom NLP pipelines; reduced manual interview scheduling overhead significantly.

COVID-19 ML Analysis Dashboard

- Applied machine learning models to COVID-19 datasets to identify transmission patterns, forecast trends, and support data-driven public health decision-making.

Driver Drowsiness Alertness System

- Developed an AI-powered driver monitoring system using Python, OpenCV, and facial landmark detection to identify drowsiness through Eye Aspect Ratio (EAR) and Mouth Aspect Ratio (MAR). Implemented real-time fatigue detection with instant audio alerts to enhance driver safety and support ADAS applications.

EDUCATION

M.Tech – Artificial Intelligence | NIET | 2020 – 2022 | 84%

B.Tech – Electronics & Communication Engineering | Jamia Hamdard | 2015 – 2019 | 70%

CERTIFICATIONS

- Machine Learning – IBM
- Data Science – ExcelR
- Python & Machine Learning – CETPA
- AI Fundamentals and the Cloud - AWS