

HITANSH GOPANI

AI/ML ENGINEER | RAG | APPLIED ML | GENERATIVE AI | PYTHON | SQL

Mumbai, India | +91 7400227943 | gopanihitansh5@gmail.com
<https://www.linkedin.com/in/hitanshgopani/> | <https://github.com/Professional50coder>

PROFESSIONAL SUMMARY

AI/ML Engineer with 2+ years of hands-on experience building production-oriented Generative AI, RAG and applied ML systems using Python, SQL, LangChain, LangGraph, FastAPI and vector search. Experienced in retrieval pipelines, embeddings, MMR, structured outputs, validation, AI evaluation and API-driven LLM applications. Strong ownership across requirements, architecture, implementation, deployment and iteration, with a focus on reliable, grounded and business-ready AI systems.

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, TypeScript **ML:** Machine Learning, Deep Learning, NLP, GNNs, Anomaly Detection
LLM/RAG: Generative AI, LLMs, RAG, Embeddings, Semantic Search, MMR, Prompt Engineering, Evaluation, Structured Outputs
Frameworks: LangChain, LangGraph, LlamaIndex, Hugging Face, PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy
Backend/Data: FastAPI, REST APIs, Pydantic, PostgreSQL, FAISS, Vector Databases, Data Processing
Engineering/Cloud: Git/GitHub, Docker, Linux, GCP, AWS, Streamlit, API Integration, Testing, Deployment

PROFESSIONAL EXPERIENCE

Pitch Perfekt Collective

Artificial Intelligence Engineer

Jul 2026 – Present

Mumbai, India

- Own AI engineering initiatives from business requirements and solution design through implementation, API integration, testing, deployment and post-release iteration.
- Build production-oriented LLM workflows and integrate RAG capabilities into node-based systems using embeddings, retrieval pipelines and grounded generation.
- Translate operational problems into AI and automation solutions, coordinating AI, backend, frontend and database components across delivery.

Quastech

AI & Digital Enablement Trainer

Dec 2025 – Feb 2026

Mumbai, India

- Designed and delivered practical AI/ML programs to 50+ engineers covering LLMs, Generative AI, transformers, RAG and production AI application development.
- Built end-to-end RAG pipelines covering document chunking, embeddings, FAISS indexing, MMR retrieval and LangChain retrieval chains, with emphasis on retrieval quality and grounded responses.
- Implemented FastAPI services, Docker deployment and GCP infrastructure with structured outputs, tool/function calling and AI guardrails.

Vendiman Pvt. Ltd.

Data Analyst

May 2024 – Sep 2024

Mumbai, India

- Built SQL/Python data ingestion, validation and reporting workflows, reducing manual reporting effort by approximately 60%.
- Developed dashboards and API-integrated automation workflows for operational reporting, data analysis and business decision support.

FOUNDER EXPERIENCE

LightNoteAI

Co-Founder

Oct 2025 – Present

Mumbai, India

- Co-founded an AI-powered proposal intelligence platform, contributing across AI/LLM workflows, product strategy, automation and technical architecture.
- Translate ambiguous customer and business requirements into AI-enabled product capabilities and iterate solutions based on user feedback and operational needs.

SELECTED AI / ML PROJECTS

VoxGate – AI Compliance Screening Platform

LangGraph, FastAPI, Pydantic, PostgreSQL

- Designed a stateful AI workflow with structured validation, retrieval/matching and explainable scoring, emphasizing reliable outputs and controlled multi-step execution.

Graph Neural Network for Anomaly & Fraud Detection

PyTorch, GraphSAGE, Scikit-learn

- Built a GraphSAGE-based transaction analysis system for link prediction and anomalous-entity detection, combining graph representations with Isolation Forest analysis.

SapnaForge – Multimodal AI Business Intelligence

Python, GCP, OCR, Speech-to-Text

- Built an AI pipeline processing handwritten notes, audio and unstructured text using OCR, speech-to-text and LLM-based structured extraction for business analysis.

EDUCATION: K. J. Somaiya Institute of Technology, Mumbai | B.Tech. in Information Technology, 2022–2026 | CGPA: 8.64/10 | Honours in Blockchain & Distributed Ledger Technology

LEADERSHIP: Technical Manager, IoT Cell – Led a 15-member engineering team across architecture, code reviews, debugging and technical mentoring.

CERTIFICATIONS: McKinsey.org Forward Program | Lean Six Sigma Foundations | Snowflake Developer Badge | Atlassian Agile Project Management