

Somesh Shukla

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EXPERIENCE

Generative AI Engineer

Oct 2025 – Present

Finkraft

Bengaluru, Karnataka

- Engineered an automated data correction pipeline leveraging Retrieval-Augmented Generation (RAG), which utilized a FAISS vector database built from historical, correct data; this system enabled a Generative AI model to cross-reference and rectify parsing inaccuracies, boosting overall data accuracy from 30% to 99%.
- Architected an **autonomous email workflow agent** utilizing a **RAG pipeline** and **FAISS** index; the system autonomously drafted context-aware responses and managed **intelligent escalation paths** without human intervention.
- Engineered a **NotebookLM style AI research assistant** for private document analysis, enabling **conversational Q&A** and the automated generation of complex, **source-grounded documents like PRDs**.
- Developed an **AI data analyst bot** interfacing with a **PostgreSQL** database; the bot utilizes an LLM to convert **natural language queries** into executable **SQL** and generate dynamic **visualization code** (Matplotlib/Plotly), enabling on-demand analytics in various formats.

Generative AI Engineer Intern

Jul 2025 – Aug 2025

Duco Consultancy

Gurugram, Haryana

- Developed a full-stack hospital management website from scratch, integrating an AI-powered patient assistant with secure, **RAG-based access to medical records** for personalized support.
- Engineered the AI assistant with **autonomous agents (tools)** to automate appointment scheduling and integrated **wearable device APIs** for real-time patient health tracking.

Software Engineer Intern

Apr 2024 – Sep 2024

Meta XR

Kolkata, West Bengal

- Developed an **AI-driven VR interview platform** in **Unreal Engine** featuring interactive, AI-powered **MetaHumans**.
- Engineered **agentic capabilities** for interviewers using the **Convai SDK**, scripting complex conversational logic and interactions via **C++** and **Blueprints**.

PROJECTS

AI-Powered Virtual Interview Assistant

Apr 2024 – Sep 2024

- Architected an intelligent interview automation system using conversational AI models and natural language processing to conduct dynamic, context-aware candidate assessments.
- Implemented multi-modal AI agents with speech recognition, sentiment analysis, and real-time response generation, leveraging Convai SDK for seamless human-AI conversation flows.

AI Data Analyst Bot

Oct 2025 – Nov 2025

- Developed an **AI-powered data analyst bot** that converts **natural language queries** into executable Python code for real-time data visualization using libraries like **Plotly** and **Matplotlib**.
- Engineered an **LLM-driven "Text-to-Code" pipeline** to interpret user analytics requests, determine optimal visualization types, and generate the corresponding code automatically.

EDUCATION

Chandigarh Engineering College

Chandigarh

Bachelor of Technology

2021 – 2025

Kendriya Vidyalaya IIM LKO

Lucknow

Physics, Maths and CS

2019 – 2020

TECHNICAL SKILLS

Languages: Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, Bash/Shell

Frameworks: React, Node.js, Flask, FastAPI, Pytest, Express.js

Developer Tools: Git, Docker, Postman, Linux, GitHub Actions, Google Cloud Platform (GCP), AWS

Libraries: LangChain, LangGraph, FAISS, Transformers, PyTorch, scikit-learn, pandas, NumPy