

SANDEEP KUMAR THAKUR

Python Developer | Generative AI Engineer | LLM & RAG Applications

Gurgaon, India | +91 7631292725 | sandeepkrthakur3@gmail.com | sandeepsportfolio.com

PROFESSIONAL SUMMARY

Python and Generative AI developer with hands-on project experience building LLM and RAG applications using LangChain, embeddings, prompt engineering, and REST APIs. Combines a strong foundation in Python, SQL, Power BI, and Git/GitHub with a track record of shipping data-driven and AI-assisted solutions. Fast learner transitioning from data analytics and digital operations into production-oriented AI engineering, with proven ability to design retrieval pipelines, automate workflows, and translate business requirements into working technical solutions.

TECHNICAL SKILLS

Programming: Python, SQL, JavaScript, HTML, CSS

Generative AI & LLM: Generative AI, Large Language Models (LLMs), NLP, Prompt Engineering, Retrieval-Augmented Generation (RAG), LangChain, LangGraph, Multi-Agent Systems, Embeddings, Semantic/Vector Search, AI Application Development

AI Engineering: FastAPI, REST APIs, API Integration, Vector Databases, Document Processing, Text Chunking, Retrieval Pipelines, Conversation Memory, Tool Calling, AI Workflow Automation, Docker, Authentication, Logging, Deployment, Git, GitHub

Data & Analytics: Power BI, Excel, MySQL, Data Cleaning, Data Visualization, Dashboarding

Web & Automation: Google Apps Script, Google Sheets, Google Docs, WordPress, Elementor

Tools: VS Code, Git/GitHub, Google Analytics, Google Search Console

SELECTED AI & TECHNICAL PROJECTS

AI Research Assistant | *RAG, LLMs, Web Search, Citations, LangChain/LangGraph, FastAPI*

- Built an AI research assistant that combines RAG with real-time web search to answer complex, multi-part questions with cited sources.
- Orchestrated multi-step retrieval-and-reasoning workflows with LangChain/LangGraph and exposed the assistant through a FastAPI backend.
- Implemented citation tracking so generated answers are grounded in and traceable to verifiable source documents.

AI Resume & Job Matching System | *NLP, Embeddings, Semantic Matching, RAG, LLM*

- Built a resume-to-job matching system that uses NLP and embeddings to semantically compare candidate profiles against job descriptions.
- Applied RAG to retrieve the most relevant resume sections and job postings, then used an LLM to generate match scores and tailored recommendations.

AI Customer Support Agent | *RAG, Conversation Memory, Tools, Ticket/Escalation Workflow*

- Built a conversational AI support agent combining RAG with persistent conversation memory to handle multi-turn customer queries.
- Integrated tool-calling for automated ticket creation and escalation, routing unresolved issues to human agents.

Multi-Agent AI System | *Research Agent, Analyst Agent, Writer Agent, Reviewer Agent, LangGraph*

- Designed a multi-agent pipeline — Research, Analyst, Writer, and Reviewer agents — orchestrated with LangGraph to automate end-to-end report generation.
- Implemented agent-to-agent handoffs and review loops to improve output quality before final delivery.

Production RAG API | *FastAPI, Vector Database, LLM, Docker, Authentication, Logging, Deployment*

- Built and deployed a production-grade RAG API using FastAPI and a vector database, containerized with Docker.
- Implemented authentication, structured logging, and a deployment pipeline to support reliable, secure API access.

AI Data Analyst | *Python, Pandas, SQL, LLM, CSV/Excel Analysis, Automated Insights*

- Built an AI data-analyst tool using Python, Pandas, and SQL to process CSV/Excel datasets and an LLM to generate automated insights and summaries.
- Enabled natural-language querying over structured datasets to speed up business reporting.

AI-Powered RAG Knowledge Assistant | *Python, LLMs, RAG, LangChain, Embeddings, Vector Search, APIs, Git/GitHub*

- Built an end-to-end Retrieval-Augmented Generation (RAG) assistant that retrieves relevant information from a custom knowledge base and generates context-aware answers using an LLM.
- Implemented the full retrieval pipeline — document processing, text chunking, embeddings, vector retrieval, and prompt engineering — to ground LLM outputs in accurate, sourced context.
- Integrated external APIs and structured the application into a modular AI workflow for knowledge-based question answering.

Google Sheets & Docs Workflow Automation | Python, Google Apps Script, Google Sheets, Google Docs

- Built automation scripts to synchronize spreadsheet data and auto-generate/update documents, cutting repetitive manual work.

Power BI Data Analytics Projects | Power BI, Excel, MySQL, Data Cleaning, Visualization

- Delivered analytics projects spanning data cleaning, visualization, and dashboarding to surface business-oriented insights.

Trainity Data Analytics Projects | Excel, MySQL, Power BI

- Completed Instagram User Analytics, Operations & Metrics Analytics, and Hiring Process Analytics projects.

Portfolio & Web Development Projects | WordPress, Elementor, HTML, CSS, JavaScript

- Designed and maintained responsive websites, landing pages, and portfolio/digital-product platforms using SEO and AI-assisted workflows.

PROFESSIONAL EXPERIENCE

Motor Insurance Executive — Policybazaar.ae

Apr 2026 – Present

- Issue and process motor insurance policies for UAE customers with a focus on accuracy, documentation, and policy compliance.
- Gather customer requirements, resolve queries, and guide customers through the end-to-end policy issuance journey.
- Operate in a process-driven, target-oriented environment while managing multiple concurrent customer cases.
- Built practical domain knowledge in insurance operations, customer communication, and problem-solving.

Investment Manager — Square Yards

- Managed client requirements, opportunity analysis, follow-ups, and relationship management in a real-estate investment environment.
- Analyzed market and investment data to deliver relevant insights to prospective and existing clients.
- Supported sales and business-development activities through requirement discovery and client engagement.

Content Writer / SEO Specialist — BiharHelp.in

Mar 2017 – Present (Project / Content Work)

- Create and optimize web content using SEO, keyword research, and content-structuring best practices.
- Use Google Analytics and Search Console to track content performance and search visibility.
- Produced high-volume website content during active production periods, contributing to domain authority growth from 1 to 19.

EdTech / Student & Customer Interaction — BYJU'S

- Worked in an education-focused environment handling student and customer communication and counselling-oriented interaction.

Computer Teacher / Educator — Computer Institute & Home Tuition

- Taught computer-related subjects and prepared learning material for students.
- Explained technical concepts in a simple, structured way, developing communication and troubleshooting skills.

EDUCATION

M.A. in Economics — Lalit Narayan Mithila University (2021)

B.A. in Economics — Lalit Narayan Mithila University (2018)

PGDCA — IGNOU (2024–2025)

ADCA (Advanced Diploma in Computer Application) (2023)

Higher Secondary — MLSM College (2015)

Secondary School — Adarsh High School (2013)

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

- Power BI Certification — TubeDude
- Data Analytics LIVE Project Certificate — Trainity
- Data Analytics Training / Projects — Excel, MySQL, Power BI
- Cybersecurity Training / Knowledge
- Generative AI & Python — Ongoing professional development

ADDITIONAL

- NSS Volunteer during graduation.
- Strong analytical thinking, communication, customer handling, and independent project execution.
- Target roles: AI Engineer, Generative AI Engineer, Python AI/ML Engineer, LLM/RAG Developer, AI Automation Engineer.