Vishul Chauhan

Python Developer | Data Engineer | GenAI Application Engineer

📧 vishul.chauhan000@gmail.com
📱 +91-7526952513
🔗 LinkedIn: linkedin.com/in/vishul-chauhan-104009184
💻 GitHub: github.com/karl-vc

Professional Summary

AI-focused Python Developer with 4+ years of experience designing enterprise-grade data systems and integrating Generative AI into secure, production environments across SaaS and FinTech domains.

Experienced in API-driven AI orchestration, Retrieval-Augmented Generation (RAG) concepts, secure data handling, and cloud-native deployment architectures. Strong foundation in building knowledge-grounded AI systems, scalable workflow automation, and enterprise data pipelines.

Core Expertise

- Python Backend & AI Integration
- Generative AI & Prompt Engineering
- Knowledge-Grounded AI (RAG Concepts)
- Enterprise API Design & Consumption
- Secure Data Handling & Encryption
- AI Workflow Orchestration
- Cloud Deployment & Containerization
- Enterprise Data Engineering

Technical Skills

Languages: Python, SQL
AI Integration: LLM APIs, Prompt Control, Structured Response Enforcement

Frameworks: FastAPI, Flask, Django, Django REST Framework, N8N
Data & Orchestration: Apache Airflow, PySpark, Databricks
Cloud Platforms: GCP (BigQuery, Cloud Composer, Cloud Storage, Cloud function), AWS (EC2, Lambda, SQS, ECR)
Databases: PostgreSQL, MySQL, SQLite
DevOps: Docker, Git, JIRA, Confluence

Professional Experience

Freelance Data Engineer – Digital Banking

Nov 2024 – Feb 2026

- Designed scalable cloud-native data pipelines processing financial datasets within secure enterprise environments.
- Built metadata-driven Airflow orchestration frameworks enabling configurable ingestion and transformation workflows.
- Implemented deterministic encryption and DLP-based data protection mechanisms to secure sensitive PII.
- Designed reusable DAG generation frameworks using JSON configuration and templating for scalable enterprise deployment.
- Integrated AI-based processing patterns within structured data pipelines while maintaining compliance boundaries.
- Provided production support and performance optimization for mission-critical banking systems.

Python Developer – Aviox Technologies Pvt. Ltd

Jan 2022 – Oct 2024

- Developed enterprise backend systems using Python and REST APIs in SaaS environments.
- Built automated RPA workflows integrating external payer systems with structured ETL pipelines.
- Developed and deployed workflows on AWS (EC2, Lambda, SQS, Docker),
- ensuring high availability and performance.
- Optimized ETL pipelines and batch processing jobs, improving data processing efficiency by approximately 30%.

- Led a team of 5 engineers delivering automation systems handling sensitive operational data.
- Collaborated with cross-functional teams to deliver production-ready features and esolve critical system issues.

AI Copilot Chat Application (Personal Enterprise AI Prototype)

Deployed on GCP VM | Dockerized | n8n AI Orchestration

Live Demo: https://chatcv.duckdns.org

- Designed and deployed a Generative AI-powered copilot-style chat system enabling interactive Q&A based strictly on curated professional knowledge.
- Implemented knowledge-bound AI responses using structured prompt engineering and contextual restriction mechanisms to prevent hallucination.
- Built an AI orchestration layer using n8n to manage LLM API calls and enforce secure response boundaries.
- Applied Retrieval-Augmented Generation (RAG) principles by grounding responses exclusively in predefined knowledge inputs.
- Dockerized frontend application and deployed on a GCP Virtual Machine with Nginx reverse proxy configuration.
- Configured secure API communication between frontend and AI backend runtime.
- Implemented request throttling and quota-aware API handling to manage model usage constraints.

Education

Bachelor of Technology (Electronics & Communication Engineering)
Shiva Institute of Engineering & Technology – 2017