

Hitesh Taneja

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SUMMARY

Data Engineer with 3+ years of experience delivering enterprise-scale data platforms and agentic AI automation solutions in regulated environments. Proficient in Python, SQL, and cloud infrastructure, with hands-on expertise in n8n workflow orchestration, LLM tool integration, and RAG pipelines. Background in regulated banking environments underpins a strong emphasis on reliability, observability, and data quality — core disciplines in production AI engineering.

EXPERIENCE

Data Engineer — Agentic AI & Automation

Jan 2025 – Present

Freelance / Contract

Remote

- Python-engineered n8n agentic workflows integrating 10+ external APIs, reducing client manual processing time by 70%.
- Designed RAG pipelines using vector embeddings and pgvector, enabling LLM agents to retrieve context from 50K+ document corpora.
- Architected multi-step LLM tool-use pipelines with Claude API, implementing retry logic and failure recovery reducing agent errors by 40%.
- Built prompt engineering frameworks with structured output validation, cutting hallucination rate by 35% in production agents.
- Deployed agent observability dashboards tracking token spend, latency, and failure modes across 5 live automation workflows.
- Integrated MCP-style tool schemas connecting agents to internal databases, CRMs, and third-party APIs for end-to-end task automation.

Data Engineer

Mar 2022 – Apr 2024

Accenture (Ulster Bank Client)

Gurugram, India

- Python-orchestrated Apache Airflow ETL pipelines processing terabyte-scale data from 25+ sources, supporting 63 compliant bank branch closures.
- Implemented IQR and Cook's Distance anomaly detection framework, reducing faulty data incidents by 60% in production pipelines.
- Automated SSIS secure data transfer packages on Autosys, eliminating 99% of manual effort across SIT, UAT, and pre-production environments.
- SQL-engineered root-cause analysis workflows for ETL failures and SLA breaches in a regulated banking environment.
- Developed Tableau dashboards delivering real-time branch closure and data quality metrics to senior leadership, accelerating decisions.
- PySpark-optimised batch processing logic improving pipeline runtime performance by 35% across large-scale datasets.

PROJECTS

Agentic Customer Support & Lead Generation Bot | [elmnts.studio](#)

2025

Python · n8n · Claude API · LLM Tool Use

- Python-built agentic support bot autonomously resolving 80% of inbound customer requests, plus a lead-gen pipeline converting site visitors into qualified leads for [elmnts.studio](#).

MSc Project: Explainable Clustering Pipeline | [GitHub](#)

2024 – 2025

Python · k-Means · UMAP · t-SNE · SHAP

- Python-built k-Means clustering pipeline with UMAP/t-SNE dimensionality reduction and SHAP-based decision trees, generating human-readable cluster insights at scale.

Enterprise Data Warehouse & BI Platform

Oct 2024 – Mar 2025

Oracle · Python · PL/SQL · Power BI

- Oracle-designed star schema data warehouse integrating 5+ disparate sources, cutting manual processing time by 50% via Python/PL/SQL ETL automation.
- PL/SQL-automated data cleansing workflows surfacing 20% cost-optimisation opportunities to leadership via interactive BI dashboards.

RELEVANT SKILLS

Languages: Python (Advanced), SQL, PL/SQL

Agentic AI & LLM: n8n Workflow Automation, LLM Tool Integration, RAG Pipelines, Prompt Engineering, Claude API, OpenAI API, Agent Orchestration

Data Engineering: ETL/ELT Pipelines, Apache Airflow, PySpark, SSIS, Autosys, Star Schema Design, Data Warehousing

Cloud & Infrastructure: AWS (S3, Athena), Microsoft Fabric, Azure, pgvector, Pinecone, Docker

Analytics & BI: Power BI, Tableau, Anomaly Detection, EDA, Regression, Classification

EDUCATION

MSc Computer Science — Distinction

University of Greenwich

Sept 2024 – Sept 2025

London, UK

Data Science & Machine Learning Specialisation

Scaler Academy

Apr 2023 – Apr 2024

Online

BSc (Hons) Computer Science — First Class

University of Delhi

Sept 2018 – Sept 2021

Delhi, India