JAYANT KUMAR VIJAY

AI Engineer | Generative AI, RAG, FastAPI, Data Engineering
Jaipur, Rajasthan, India | +919351457059 | jayantvijay00@gmail.com
LinkedIn: https://www.linkedin.com/in/jayant-kumar-vijay
GitHub: https://github.com/jntv
Portfolio: jayantkumarvijay.com

PROFESSIONAL SUMMARY

AI Engineer with a strong data engineering foundation, building production GenAI systems and AI-enabled applications across financial automation, asset intelligence, and enterprise workflows. Experienced in LLM integration, RAG, backend APIs, and data platforms using Python, FastAPI, Azure Databricks, and AWS. Delivered systems processing 10,000+ records daily while reducing manual effort, operational errors, and inference costs.

PROFESSIONAL EXPERIENCE

DATANSH SOLUTIONS PVT. LTD. — Jaipur, Rajasthan, India

AI Engineer | April 2025 – Present
Data Engineer | Oct 2023 – March 2025

Financial Intelligence & Automation

- Designed and deployed a production financial-analysis pipeline using Python, FastAPI, a fine-tuned Gemma 4 31 B model, structured outputs, and automated validation, processing 10,000+ financial records daily.
- Developed structured LLM workflows for transaction analysis, IRS compliance checks, irregularity detection, and P&L analysis, with validation and deterministic post-processing to improve production reliability.
- Reduced bookkeeping errors by 70% and manual compliance effort by 85% through AI-assisted validation and automated financial workflows.

Asset Recognition System

- Built an LLM-based asset recognition and metadata-enrichment pipeline combining AWS Rekognition and structured LLM outputs across 5,000+ asset categories.
- Migrated metadata extraction from a conventional ML/AWS Rekognition workflow to an LLM-driven architecture, improving metadata extraction.
- Optimized prompt design, context construction, and structured-output schemas to improve classification reliability and reduce token consumption.

AI Product Engineering

- Developed and deployed internal SDLC automation and bookkeeping platforms using Next.js, React, FastAPI, REST APIs, and AI-powered workflows.
- Integrated LLM-based analysis, structured data generation, and validation workflows into end-user applications, connecting model inference with backend services and persistent application data.
- Prototyped MCP-based and agentic workflows for automating engineering and business processes across internal applications.
- Owned end-to-end prototyping and delivery across frontend, backend, AI integration, and deployment for multiple internal product initiatives, taking solutions from business requirements to working applications.

Data Engineering & Lakehouse Modernization

- Built end-to-end batch and streaming ELT pipelines across four source systems using Azure Data Factory, Databricks, and Python for downstream reporting and analytics.
- Migrated a legacy data warehouse to a Delta Lakehouse architecture with schema enforcement across Bronze, Silver, and Gold layers, reducing analytical query latency by 20% and enabling downstream AI workloads.
- Implemented automated data-quality validation using Great Expectations, reducing recurring data anomalies from ~500 to fewer than 15 per day.

AARAV SOFTWARE SERVICES — Remote

Technical Content Writer | Jan 2023 – Jul 2023

- Authored SEO-focused technical guides and tutorials covering Python, AI/ML, cloud, and enterprise software, contributing to increased platform engagement.

TECHNICAL SKILLS

- **Languages:** Python, SQL, TypeScript
- **Generative AI:** LLMs, RAG, Fine-tuning, Structured Outputs, Prompt Engineering, Hugging Face, MCP, Agentic Workflows
- **Backend:** FastAPI, Flask, REST APIs
- **Data Engineering:** Databricks, PySpark, Delta Lake, Azure Data Factory, Medallion Architecture, Great Expectations, Pandas
- **Databases:** PostgreSQL, Valkey, Qdrant/ChromaDB
- **Cloud:** Azure, AWS (EC2, S3, Lambda, Rekognition)
- **DevOps:** Docker, Terraform, Azure DevOps, Git, CI/CD
- **Frontend:** Next.js, React

EDUCATION

Bachelor of Technology (B.Tech) in Computer Science Engineering — Jaipur, Rajasthan, India

RAJASTHAN TECHNICAL UNIVERSITY — 2020-2024