

Aman Singh

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SUMMARY

Python Engineer with 2+ years of experience building production-grade APIs, automated ETL pipelines, and SQL-driven backend systems in fintech environments. Strong expertise in Python, FastAPI, REST APIs, SQL optimization, data validation, reconciliation automation, and transforming manual Excel workflows into scalable, system-driven pipelines. Focused on building reliable, observable backend systems that support analytics, reporting, audits, and business operations.

EDUCATION

Sarvajanik College of Engineering and Technology

Bachelor of Engineering in Computer Engineering; CGPA: 8.00

Surat, India

Oct 2020 – May 2024

EXPERIENCE

NJ Asset Management Pvt. Ltd.

Python Engineer

Surat, India

Jun 2024 – Present

- Designed and developed FastAPI and Flask backend services to support analytics platforms, reporting systems, and internal automation workflows.
- Built Python-based ETL pipelines to ingest, validate, reconcile, and store financial datasets, reducing manual processing by 60%.
- Implemented idempotent reconciliation and audit pipelines with retry logic, structured logging, and automated email notifications.
- Migrated Excel-driven manual processes into scalable Python and SQL pipelines, improving data consistency and operational reliability.
- Optimized SQL queries, indexes, and stored procedures, improving dashboard and report performance by 50%.
- Implemented logging and basic monitoring to track backend failures, data inconsistencies, and pipeline health in production.

NJ Asset Management Pvt. Ltd.

Data Science Intern

Surat, India

Jan 2024 – Jun 2024

- Developed backend data models and API endpoints powering dashboards for sales and performance analytics.
- Automated recurring Excel-based reports using Python and SQL, improving accuracy and reducing manual effort.
- Improved data ingestion and processing workflows through SQL tuning and schema optimization.

PROJECTS

Online Payment Fraud Detection | Python, FastAPI, XGBoost, Docker

- Built an end-to-end fraud detection pipeline processing 6.3M+ transactions; achieved ROC-AUC 0.96 using XGBoost and Logistic Regression.
- Developed a FastAPI inference service for real-time transaction scoring and containerized it for scalable deployment.

ESG Performance Analysis | Python, Pandas, SQL

- Analyzed ESG scores versus stock performance using t-tests and OLS regression with $R^2=0.62$.
- Implemented Monte Carlo Value-at-Risk simulations and backend data workflows supporting risk dashboards.

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript

Backend: FastAPI, Flask, REST APIs, Pydantic

Data Processing: ETL Pipelines, Data Validation, Scheduling, Pandas, NumPy

Databases: MySQL, Oracle SQL, BigQuery, Stored Procedures, Query Optimization

ML / Applied ML: Scikit-learn, XGBoost, LangChain, RAG, FAISS

Tools: Docker, GitHub Actions, Linux, Git, Plotly, AgGrid

CERTIFICATIONS

Oracle Cloud Infrastructure Certified Data Science Professional

Issued 2025