

Shantanu Sharma

Data Scientist | Backend Engineer (Python + Go)

Building production-grade AI/ETL systems, scalable APIs, and LLM-driven applications. Obsessed with turning raw data into **real-world, production-ready solutions**.

Core Skills

- **Languages:** Python, Go, SQL (MSSQL, PostgreSQL, MySQL)
- **Data Infra:** FastAPI, MongoDB, Vector DBs, RabbitMQ, Celery
- **LLM/AI:** Retrieval-Augmented Generation (RAG), model fine-tuning, context optimization
- **Visualization:** Power BI, Tableau
- **Data Pipelines:** Pandas, NumPy, ETL design, DBT, advanced DAX
- **Others:** Git, Docker, REST API design, async systems

Featured Projects

- **RAG Service (FastAPI + Vector DBs)**
Retrieval-Augmented Generation with low-latency search and contextual responses.
- **Distributed Backend Services (Go + RabbitMQ)**
Resilient backend systems: webhook ingestion, async job processing, inter-service communication.
- **BI Dashboards Portfolio**
Power BI & Tableau dashboards for analytics storytelling.
- **ETL Microservice (Celery + RabbitMQ)** High-throughput API extraction and transformation pipelines.

Experience

Data Scientist – Centocode (Sep 2024 – Present)

- Built **LLM-based apps** and **RAG pipelines** with FastAPI + vector DBs.
- Designed **MongoDB schemas** and vector stores for high-performance querying.
- Shipped **production APIs** integrating AI models into live systems.
- **Backend Engineering:** Modular FastAPI & Go microservices with JWT auth, API integrations, inter-service communication.
- **Analytics Integration:** Embedded dashboards (Power BI, Superset) inside platform environments.

Data Scientist – 1ViewApps.com

- Architected **ETL microservices** with RabbitMQ + Celery for async data extraction.
- Built scalable **API integrations** for high-throughput ingestion.
- Owned cross-team delivery and **product feature ownership**.

Associate Data Scientist – KDataScience Solutions

- Built **data pipelines** with Python + MSSQL for Power BI.
- Validated & transformed incoming data via **Pydantic**.
- Enhanced **interactive dashboards** with DAX + advanced visualization logic.
- Mentored trainees in **data warehousing + analytics workflows**.

Education

- **B.A. Mathematics (Hons)** – Ambedkar University Delhi (2015–2020)

Certifications

- Python
- Power BI
- Tableau
- SQL
- Excel
- DBT

Connect

- [LinkedIn](#)
- [Tableau Public](#)
- [Maven Analytics](#)
- Check out my technical deep dives on mathoholic.com/blog