

# ROUSHAN KUMAR

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## PROFESSIONAL SUMMARY

**Gen AI Engineer | 6+ YOE** specializing in **LLM systems, RAG, fine-tuning**. Built RAG applications with **LangChain, GPT-4, vector databases**; fine-tuned **DistilBERT** achieving **96%+ F1-score**; engineered ML pipelines processing **10M+ records/day**. Delivered record-breaking sales performance and 45% waste reduction through data-driven optimization.

## SKILLS

<b>Gen AI &amp; LLMs:</b>	LangChain, RAG (FAISS, ChromaDB), GPT-4, Transformers, Hugging Face, Fine-Tuning, Prompt Engineering
<b>ML/DL:</b>	PyTorch, Scikit-learn, XGBoost, NLP, Time Series Forecasting
<b>MLOps &amp; Cloud:</b>	AWS (SageMaker, Bedrock, S3), Docker, MLflow, FastAPI, CI/CD
<b>Data &amp; DBs:</b>	Python, SQL, PL/SQL, PostgreSQL, MySQL, R
<b>Tools:</b>	Tableau, Streamlit, Git, Jira

## WORK EXPERIENCE

### JD Wetherspoon

Apr 2023 – Feb 2025

*Operations Analyst - Business Analytics*

*London, UK*

- Built **SQL-based demand forecasting** analyzing 2+ years of sales data to optimize staff scheduling and operations, contributing to outlet achieving **record-breaking £55k weekly sales** (highest performance across all company locations).
- Developed **Python/SQL inventory optimization** reducing waste by **45%** through sales velocity analysis across 200+ SKUs to minimize spoilage and improve capital efficiency.
- Prototyped **RAG-based knowledge base** using **LangChain, ChromaDB** for internal documentation retrieval, demonstrating Gen AI applications in operational workflows.

### Tata Consultancy Services

Mar 2019 – Jul 2021

*Data Analyst*

*Pune, India*

- Conducted **exploratory analysis (Python/SQL)** to drive strategic segmentation and product insights for BMO's personal & commercial banking products.
- Built real-time **BI dashboards (Tableau)** to monitor user engagement and product performance, enabling data-driven decision-making.
- Improved reporting accuracy by **20%** via data mining and validation, optimizing sprint planning and backlog visibility.

### Tata Consultancy Services

Jun 2017 – Mar 2019

*Backend Developer*

*Pune, India*

- Engineered **ETL pipelines (Python, PL/SQL)** processing **10M+ records/day** from global servers to standardize data for downstream analytics and ML training datasets.
- Transformed complex raw **JSON feeds** into optimized normalized tables to accelerate ML model training and analytics applications.
- Reduced data ingestion errors from **5% to 1%** by optimizing SQL queries, leading code reviews, and automating validation checks.

## PROJECTS

### DocuChat AI - Document Intelligence System

[GitHub]

- Built **RAG application** with **LangChain, FastAPI, ChromaDB** for multi-document Q&A; supports PDF/DOCX/HTML with history-aware retrieval and session persistence. **Tech:** Python, OpenAI, Streamlit.

### Financial SMS NER - Entity Extraction

[GitHub]

- Fine-tuned **DistilBERT** on **50k SMS** extracting **20+ entities** achieving **96.2% F1-score**; optimized inference to **<20ms/batch** for production. **Tech:** PyTorch, Transformers, Hugging Face.

### FX Intelligence Agent - Multi-Currency AI

[GitHub]

- Built **GPT-4 agent with function calling** for currency conversion supporting **170+ fiat currencies and 14 cryptos**; deployed on Hugging Face Spaces. **Tech:** LangChain, OpenAI, Streamlit.

## EDUCATION

MSc Data Science & Analytics, Cardiff University

2021–2023

B.Tech Computer Science, SRM University

2013–2017

## CERTIFICATION

Retrieval Augmented Generation (RAG)

2025

Generative AI with Large Language Models

2023