SACHIN

Sheffield, UK | +44-7424510812 | sachinuk145@gmail.com | https://www.linkedin.com/in/sachin-14/ | https://github.com/sachin14596

SUMMARY

Data professional with 3.5+ years of experience across Data Engineering, Data Science, Data Analysis, and Database Administration roles, backed by an MS in Big Data Analytics. Specialized in AI Engineering with hands-on expertise in RAG, LLMOps, Fine-Tuning, and Agentic AI. Proficient in Machine Learning, Deep Learning, Natural Language Processing, Large Language Models, and Generative AI. Known as a researcher, problem solver, and a from-scratch learner who thrives on building impactful solutions. Actively seeking AI Engineer roles with full right to work in the UK.

PROJECTS

Medical Case Analysis RAG System with Evaluation (Dissertation)

Sep. 2024-Dec. 2024

- Built a domain-specific RAG system from scratch for medical case analysis, replacing general models with Bio_ClinicalBERT for semantic retrieval via FAISS and MedLlama-3-8B for generation, enabling fast, GPU-accelerated diagnosis support on NHS-format case data.
- Evaluated system performance against general-purpose models, with 69% higher avg. similarity and significant BLEU (+251%) and ROUGE-1,2,L (+32%/+36%/18%) improvements, leading to fewer hallucinations and more accurate clinical outputs.

Web Social Media Analytics Using NLP and Graph Network Analysis

Jan.2024-May 2024

- Performed large-scale analysis of 500K+ tweets using NLP techniques to track sentiment trends and misinformation, applying topic modeling (LDA/LSI) and graph network analysis with Python (NLTK, TextBlob, Gensim, NetworkX).
- Trained sentiment classifiers (Logistic Regression: 96.8%, SVM: 96.9%, LSTM: 93.9%) and used graph centrality metrics to identify key influencers behind cross-community content spread, visualized networks to expose high-impact nodes and potential misinformation clusters.

WORK EXPERIENCE

Prestige Windows | Data Engineer, Sheffield, UK

Aug. 2024-Nov. 2024

- Built an automated data pipeline using **Python** and **Power Platform** to extract sales data from **500+** PDFs and **3** websites, cutting manual effort, and increased revenue by **15%**.
- Created **Power BI** dashboards using **DAX** measures and dynamic filters to visualize product-level sales trends, enabling targeted strategy execution that increased sales by **40%** and empowered real-time, data-driven business decisions.

Q3 Technologies | Software Engineer (Data & BI), Gurugram, India

Jan. 2022- Jan. 2024

- Built a RAG-based AI chatbot to extract insights from project documents and research papers, cutting manual lookup by 35% and improving requirement clarity in IT and scientific decisions in the chemical industry.
- Engineered an Al-driven tender automation system using RPA, OCR, and a RAG-based LLM chatbot to extract, categorize, and query documents, automating 80% of manual work and enabling 5x more daily applications to increase coverage and competitiveness.
- Enabled OpenAI-MySQL integration for natural language sales queries on 50K+ records/month, reducing query time by 60% for non-technical jewellery client.
- Developed a sentiment and topic modeling system (SVM, TF-IDF, LDA, preprocessing) for a quick-commerce client to flag delivery-related issues, achieving 83% accuracy and helping CX and product teams improve user experience.
- Led a scalable web application for south Korean electronics firm with 140+ SQL procedures and ETL pipelines for 1M records, cutting processing time by 90% and Streamlining workflows to enable swift decision-making within the finance and accounts team.

iNeuron.ai | Data Analyst Project Intern, Bangalore, India

Aug. 2021-Nov. 2021

- Analysed 300+ patient records, creating 22+ Python visualizations and a Power BI dashboard, improving diagnostic decision-making.
- Created High/Low level designs, architecture, and wireframes to define analysis flow, reducing rework by 25%.

Goalwit Technologies | Software Engineer, Delhi, India

Aug. 2019-Dec. 2020

- Architected **end-to-end SQL database** for matrimony product including schema design, indexing strategies, and stored procedures in collaboration with backend developers, improved query speed by **70%** and enabled scalable performance as user base grew **5x**.
- Designed and executed ETL pipelines in SQL and Python to cleanse, transform, and integrate multi-source user data, improving CRM accuracy by 40% and driving efficient lead segmentation.
- Engineered a rule-based matchmaking system using SQL and Python to filter profiles based on demographic, religious, and behavioral preferences, reduced mismatch complaints by 27% and boosted successful pairings, directly increasing match-to-sale conversions.
- Built a **logistic regression** model to **score user engagement** during onboarding based on behavior signals like field skip rate and time spent, identified highrisk drop-offs, optimized form UX, and increased profile completion by **23**%.
- Applied NLP techniques like **TF-IDF and cosine similarity** using **Python** to analyze user bios and interests, increasing match relevance by **53%** and boosting engagement on suggested profiles in the matrimony workflow.

SKILLS & LANGUAGES

Programming Languages: SQL, SparkSQL, NoSQL, CQL, DAX, Python, PySpark, R

Data Tools & Platforms: SQL Server, MySQL, SSIS, Databricks, Power BI, Neo4j, Google Colab, MongoDB, Visual Studio, Docker, Cursor

Libraries & Framework: Pandas, NumPy, Scikit-learn, XGBoost, TensorFlow, PyTorch, Kera, NLTK, SpaCy, Gensim, Pydantic

GenAl: OpenAl, Llama, Gemini, Mistral, Hugging Face, LangChain, LangGraph, Langflow, Ollama, FastAPI, Streamlit, Groq, Pinecone, FAISS, CrewAl

Cloud: AWS (S3, Bedrock, ECR, SageMaker)
DevOps & Version Control: CI/CD, Git

EDUCATION

• Birmingham City University | Masters of Science in Big Data Analytics (Distinction) | Birmingham, UK

Jan. 2024-Jan. 2025

• Jamia Hamdard | Bachelors of Engineering in Electronics & Communication (Merit) | Delhi, India

Aug.2014-Aug. 2018