SACHIN

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SUMMARY

Data professional with **4.5+ 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. 2018-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

GenAI: OpenAI, Llama, Gemini, Mistral, Hugging Face, LangChain, LangGraph, Langflow, Ollama, FastAPI, Streamlit, Groq, Pinecone, FAISS, CrewAI

Cloud: AWS (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