Akshay Shiwarkar
United Kingdom
+44 7909 313022 | akshay576shiwarkar@gmail.com
LinkedIn Profile | **Portfolio**

Professional Profile

Data Analyst and SAP BASIS Consultant with a Master's in Data Analytics and 2.5+ years of SAP experience. Skilled at combining **enterprise ERP expertise** with **advanced analytics, machine learning, and AI tools** to deliver actionable insights and improve system performance. Strong background in **system migrations, performance tuning, and incident management**, complemented by hands-on experience in **predictive modelling, NLP, deep learning, and real-time data applications**. Proven ability to bridge technical infrastructure with data-driven decision-making.

Key Skills

Data Engineering & Backend:
FastAPI, RESTful API Design, Celery, ETL/Data Pipelines, PostgreSQL, Redis, Docker, Linux, Git, CI/CD, JSON, HTTP, API Integration (YouTube Data API, OpenAI)

SAP & Databases:
SAP BASIS Administration, HANA/ERP Installation & Migration, DR Drills, System Refreshes, System Monitoring, Performance Optimization, User & Role Management, Load Balancing, Database Administration (HANA, Oracle, DB2, Sybase, MSSQL)

Analytics & Data Science:
Machine Learning, Predictive Modelling, Statistical Analysis, Risk Analysis, NLP, LLMs (OpenAI), Data Visualization, Big Data Technologies

Programming & Tools:
Python, R, SQL, Power BI, Tableau, Apache Spark, Hadoop, GitHub, AWS/Azure

OS/DB Proficiency:
Linux, Windows Server, HANA, Oracle, DB2, Sybase, MSSQL, PostgreSQL

Soft Skills:
Leadership, Problem-Solving, Cross-Functional Collaboration, Communication

Professional Experience

AI Data Engineer / Backend Engineer | Gusport, London GB   *Aug 2025 – Present*

- Built and maintained end-to-end ETL pipelines using Python, FastAPI, Celery and PostgreSQL to ingest and normalise YouTube channel, video and comment data for analytics and AI workloads.
- Designed and implemented relational data models and SQL queries to support reporting on channel performance, engagement patterns and AI-generated "video opportunity" recommendations.
- Developed RESTful APIs in FastAPI for user authentication, channel management, ingestion runs and opportunity retrieval, consumed by a Next.js frontend dashboard.
- Integrated OpenAI LLMs to transform unstructured audience comments into structured themes, sentiment and ranked content opportunities, including prompt design, JSON parsing and validation.
- Implemented and operated background job processing with Celery + Redis for long-running ingestion and analysis tasks, adding logging, retry logic and status tracking to improve reliability.
- Collaborated within team to debug production issues, optimise performance, and refine KPIs and scoring logic based on feedback from the product founder.
- Used Docker and environment-based configuration to standardise local and production setups, simplifying deployment, testing and ongoing application support.

SAP BASIS Consultant Team Lead | Infrabeat Technologies, India   *Apr 2022 – Aug 2023*

- Led SAP S/4HANA ERP implementations and migrations with a 100% success rate, reducing downtime by 15% and improving performance by 20%.
- Applied data-driven monitoring and predictive analytics to identify system bottlenecks, achieving a 25% increase in efficiency and 40% reduction in operational costs.
- Managed SAP HANA installations, patching, upgrades, and root-cause analyses.
- Collaborated with IT, finance, and HR stakeholders to identify improvements and implement system enhancements.
- Documented system architecture and SOPs for audits and team knowledge sharing.

- Guided architecture planning, ensuring scalability, security, and optimized load balancing.
- Mentored junior consultants, fostering knowledge-sharing and best practices.

Associate SAP BASIS Consultant | Infrabeat Technologies, India   *Feb 2021 – Apr 2022*

- Provided SAP BASIS support across ECC6, Solution Manager, BI, CRM, EP.
- Managed system refreshes, client copies, SAP Note implementation, and kernel upgrades.
- Configured user roles, RFC connections, and disaster recovery setups.
- Collaborated with senior consultants to optimize SAP landscapes with data-driven insights.
- Managed user roles, authorizations, and access controls for secure SAP operations.

Education

MSc Data Analytics
University of Strathclyde, Glasgow, UK | Distinction
Sept 2023 – Sept 2024
Key Modules: Data Management, Statistical Analysis, Predictive Modelling, Risk Analysis, Machine Learning, Python, Power BI

Bachelor of Engineering – Information Technology
Savitribai Phule Pune University, India| CGPA 6.1
Jul 2016 – May 2021
Key Modules: DBMS, Software Engineering, Cloud Computing, Business Analytics, DSA, Computer Networks, Operating Systems, SDLC

Key Projects

- **AI Agent Chatbot (LangGraph + Groq + OpenAI + Tavily):** Built a full-stack chatbot with LangGraph ReAct agents, integrating Groq (Llama 3, Mixtral) and OpenAI GPT-4o-mini with Tavily API for real-time web search. Delivered a Streamlit UI with multi-turn memory, customizable prompts, and error handling. Deployed on Streamlit Cloud to demonstrate end-to-end LLM orchestration. Live Demo
- **Classifying regions by assessing countries' progress to their Sustainable Development Goals:** Developed a novel approach to classify countries based on progress toward UN SDGs using Principal Component Analysis (PCA) and K-means clustering. Identified global development patterns beyond traditional groupings through comprehensive data analysis.
- **NLP Analysis of NHS Training Materials:** Analysed NHS training materials using spaCy NLP for tokenization, word frequency analysis, named entity recognition, and topic modelling. Identified key themes in patient care and staff training, offering insights to enhance education and develop AI-driven healthcare tools.
- **Bitcoin Price Prediction:** Predicted Bitcoin prices using regression models (Linear Regression, Random Forest, Gradient Boosting) and LSTM network, analysing data from various stock indexes. Integrated real-time data streams and sentiment analysis via Yahoo Finance API to enhance predictive accuracy, providing timely insights for the volatile cryptocurrency market.
- **Spotify Classification Problem:** Developed and fine-tuned a Random Forest regression model to predict song popularity, using feature engineering, outlier handling, and ensemble methods, outperforming other models in accuracy and achieving a competitive Kaggle Class competition ranking. (RMSE 7.5)

Other Skills & Certifications

- SQL for Data Science, Preparing Data for Analysis with Excel, PowerBI Fundamentals