

Mukesh Shirke

Data Analyst / Consultant

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[Portfolio](#) | [GitHub](#) | [LinkedIn](#) 

Leeds, United Kingdom 

Summary

Data Analyst transitioning from 15 years in Data-Driven Oil & Gas Operations, specializing in operational optimization and risk management. Proficient across the full data lifecycle: Star Schema modeling, Statistical Analysis, SQL, Python, Power BI, and Tableau. Seeking to apply deep industry context and technical mastery to deliver actionable business insight.

Technical & Professional Skills

- **Programming & Querying:** SQL - MySQL, SQL Server - (Queries, JOINS, CTEs, Window functions, Stored Procedures), Python (Pandas, NumPy, Matplotlib).
- **Data Analysis & Manipulation:** Data Cleaning, Data Transformation, Exploratory Data Analysis (EDA), Statistical Analysis, Trend Analysis, Data Validation.
- **Business Intelligence & Visualization:** Power BI (DAX, Power Query), Tableau, Advance Excel (LOOKUPS, Pivot Tables, Power Query), KPI Tracking, Data Storytelling, Actionable Business Insights.
- **Database & Data Management:** Data Modelling (Star & Snowflake Schema), ETL/ELT Processes, Structured and Unstructured Data (including raw data), Data Governance Awareness.
- **Professional Skills:** Problem-Solving, Stakeholder Management & Insight Delivery, Collaboration, Attention to Detail, Agile Awareness.

Data Analytics Portfolio Projects

From Schema to Strategy: Healthcare Performance Analysis with SQL and Python [\[Link\]](#)

- Initiated Data Understanding in Python (Pandas), profiling 8 operational tables to map relational schema.
- Engineered Star Schema in MySQL; performed database creation, data import → executed Data Cleaning and transformation via SQL to establish single source of truth.
- Conducted advanced Exploratory Data Analysis (EDA) using SQL (CASE logic, Subqueries, Window Functions) to calculate critical utilization and cost metrics.
- Established SQL-Python connection for in-depth Statistical Analysis → validated primary cost drivers through correlation and distribution checks.
- Translated findings into actionable business insight → delivered strategic recommendations on cost management and patient service quality.

Retail Operations Dashboard: SQL Database to Power BI KPI Tracker [\[Link\]](#)

- Engineered a fully normalized SQL database (3NF) to manage operational data → eliminated redundancy and streamlined data retrieval for reporting.
- Developed three interactive Power BI dashboards for Orders, Inventory, and Staff, utilizing SQL views (to optimize BI performance) and complex DAX measures.
- Enabled real-time KPI tracking and trend analysis → delivered essential business insight for data-driven management.

Cloud-Based ELT Pipeline with Snowflake via Fivetran to analyse World Life Expectancy Data [\[Link\]](#)

- Built an automated, scalable ELT pipeline using Fivetran for ingestion into Snowflake Cloud Data Warehouse → ensuring data availability for analysis.
- Performed data cleaning and transformation within Snowflake via SQL to structure the dataset → conducted Exploratory Data Analysis (EDA) to uncover global health and socioeconomic trends.

Professional Experience

Independent Data Analytics Consultant & Immersion

Oct 2024 - Present

- Actively transitioned into data analytics, mastering the full tech stack through dedicated, consultative portfolio projects focused on translating data into actionable business recommendations

Drilling Specialist (Data-Driven Operations) | Oil & Gas Upstream

Mar 2009 – Oct 2024

- Analyzed high-volume sensor data and engineering models to inform critical, time-sensitive decisions → resulting in optimized operational efficiency and risk reduction.

- Translated complex operational data (pressure, torque, survey data) into reports and insights that ensured compliance and operational efficiency.
- Managed and streamlined operational data workflows, collaborating with cross-functional teams to ensure safety and data consistency across diverse projects.

Education / Courses

- **Google Data Analytics Certificate** | Covers the end-to-end data process, from cleaning and analysis using SQL to visualization and business recommendations. [\[Certificate Link\]](#)
- **Bachelor of Engineering in Mechanical** | Mumbai University, India