

# Mukesh Shirke

Data Analyst / Business Analyst

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Leeds, United Kingdom

## Summary

Data Analyst with expertise in SQL, Python, BI tools, and ETL/ELT pipelines. Strong background in KPI tracking, forecasting, and data storytelling to enable decision-making. Backed by 15 years in Oil & Gas, applying analytics to improve operational efficiency and guide strategic decisions.

## Skills

- **SQL** (SQL Server, MySQL)
- **Python** (Pandas, NumPy, Matplotlib)
- **R** (tidyverse, dplyr, janitor, ggplot2)
- **Excel** (Power Query, Pivot Table, LOOKUP, Conditional Formatting)
- **Power BI** (DAX, Power Query)
- **Tableau**
- **Snowflake** (Cloud Data Warehouse)
- **ETL & ELT Processes, Database Management**
- **Data Cleaning & Wrangling**
- **Data Modelling & Structuring** (Star Schema, Snowflake Schema, 1NF–3NF)
- **Data Analysis & Exploration** – Statistical Analysis, Forecasting & Trend Analysis
- **Data Visualization, KPI Tracking & Reporting**
- **Business Insights & Decision Support**

## Projects

### PizzaRio Analytics: Building a Scalable Data Pipeline for a Small Business [\[Link\]](#)

- Designed a fully **normalized SQL database (3NF)** to manage orders, inventory, and staff.
- Wrote optimized **SQL queries** and created **SQL views** for Power BI reporting.
- Built three **Power BI dashboards** using SQL views and **DAX measures** to deliver actionable business insights, track **KPIs** such as **sales growth and staff efficiency**, and perform trend analysis on **ingredient usage and costs**.

### From Flat File to 3NF: Normalizing Sales Data for Insightful Analysis [\[Link\]](#)

- **Converted** a flat Excel dataset with 31 columns into a fully normalized **1NF, 2NF, and 3NF relational model**, then **modelled the data in Power Pivot** to build a **snowflake schema** with fact and dimension tables.
- Built **Tableau dashboards** to **visualize sales performance**, **identify top and under-performing product subcategories**, and provide **data storytelling** for **stakeholder decision-making**.

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

- Built an automated **ELT pipeline** (Google Sheets → Fivetran → **Snowflake cloud warehouse**) and performed SQL-based data cleaning & transformations.
- Conducted **EDA** to deliver insights on global life expectancy trends, GDP impact, and health disparities.

## Education / Courses

- **Google Data Analytics Certificate**: Comprehensive training in data cleaning, Exploratory Data Analysis (EDA), visualization, R programming, and data-driven decision making through hands-on projects. [\[Certificate Link\]](#)
- **Bachelor of Engineering in Mechanical** | Mumbai University, India | 2001 – 2004

## Work Experience

### Career Break (Relocation / Professional Upskilling)

Oct 2024 - Present

- Strengthened analytics skills in SQL, Python, R, Excel, Tableau, and Power BI through hands-on projects.

### Drilling Specialist | Oil & Gas Upstream

Mar 2009 – Oct 2024

- Led well planning, trajectory design, and on-site drilling operations, leveraging data-driven insights to optimize efficiency, reduce costs, and manage risks.