

Karishma Rawal

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CAREER OBJECTIVE

Aspiring Data Analyst with expertise in Advanced SQL and Advanced Excel, committed to leveraging data analysis, problem-solving, and critical thinking to drive business decisions. Skilled in analyzing key metrics, optimizing demand and supply data, and identifying cost-reduction opportunities. Passionate about utilizing data-driven insights to improve operational efficiency and support strategic planning in a dynamic environment.

Technical Skills

- Excel & Data Processing:** Proficient in Advanced Excel (PivotTables, VLOOKUP, INDEX-MATCH, Power Query) for data analysis and reporting.
- SQL & Databases:** Strong expertise in Advanced SQL (Joins, Subqueries, CTEs, Window Functions) for efficient data extraction, transformation, and analysis.
- Statistical Analysis:** Understanding of basic statistics and probability concepts (Descriptive Statistics, Mean, Median, Standard Deviation, Probability Distributions) for data-driven insights.
- Data Analysis & Problem-Solving:** Skilled in root cause analysis, anomaly detection, demand-supply optimization, and cost reduction strategies to enhance operational efficiency.
- Data Visualization:** Experience in Power BI (DAX, Data Modeling, Interactive Dashboards) for creating insightful business reports.
- Critical Thinking & Communication:** Ability to interpret data, identify patterns, derive actionable insights, and present findings effectively to support strategic decision-making.

Key Skills & Strengths

- Analytical & Critical Thinking:** Strong ability to analyze metrics, optimize data, and solve complex problems.
- Effective Communication:** Skilled in presenting insights, collaborating with stakeholders, and supporting business decisions.
- Data Handling & Optimization:** Proficient in Advanced SQL, Excel, and Power BI for data structuring, reporting, and visualization.

PROJECTS

Project: Diwali Sales Analysis (Python)

GitHub: [Diwali Sales Analysis](#)

Objective: Analyzed Diwali sales trends, customer behavior, and regional performance using Python to derive insights for optimizing marketing and inventory strategies.

Project Outcome:

- Cleaned and processed sales data using Pandas and NumPy.
- Performed exploratory data analysis (EDA) to identify sales patterns.
- Conducted statistical analysis to track demand fluctuations.
- Visualized insights using Matplotlib and Seaborn for trend analysis.
- Identified top-selling products, peak sales periods, and customer segments.

Key Skills: Pandas, NumPy, Matplotlib, Seaborn, EDA, Statistical Analysis, Data Visualization.

Project Title: Road Accident Analysis Dashboard (Excel, Data Visualization, Trend Analysis)

Objective: To analyze road accident data using an interactive Excel dashboard, identifying key trends, causes, and patterns based on factors such as vehicle type, road conditions, and weather. The project aims to provide data-driven insights for enhancing road safety and reducing accidents.

Project Outcome:

- Developed an interactive Excel dashboard to analyze road accident data.
- Processed and visualized accident trends, casualties, and road conditions.
- Identified key insights into accident causes based on vehicle type, road type, and weather conditions.
- Provided data-driven recommendations for road safety improvements.
- Used Excel functions, Pivot Tables, Charts, and Conditional Formatting.

Key Skills: DAX calculations, Power Query, Data Modeling, Advanced Visualizations, Slicers & Filters.

Project Title: Diverse Dataset Analysis Using SQL (Cereals, Clinical, Insurance, Movies, Organization, Titanic).

GitHub: [SQL Projects](#)

Objective: Analyzed multiple datasets using SQL to extract insights on nutrition, patient trials, risk assessments, entertainment trends, organizational performance, and survival factors.

Project Outcome:

- Optimized SQL queries with joins, aggregations, and indexing for improved performance.
- Developed stored procedures and views for efficient reporting on key metrics.
- Calculated insights like total sales, risk factors, and survival probabilities.

Key Skills: MySQL, SQL Joins, Aggregations, Stored Procedures, Views, Indexing, Performance Optimization.

ACADEMIC PROFILE

- Certified Data Scientist Professional, Imarticus Learning, 2024 | **88.74%**
- BCA, MLSU, 2024 | CGPA: **8.15+**
- XII, Shree Kamla Nehru School, 2021 | **83.4%**
- X, Shree Kamla Nehru School, 2019 | **82.2%**

CERTIFICATIONS & ACADEMIC ENDEAVORS

- Microsoft: Introduction to Career Skills in Data Analytics
- Analytics Vidhya: Machine Learning
- Tata: Communication
- Accenture: Data Analytics and Visualization
- Goldman Sachs: Microsoft Excel
- PWC: PowerBI