

Yash Shah

DATA ANALYST - SQL, Excel, Power BI/Tableau & Python

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SKILLS

- **Data Analysis & Visualization:** Power BI, Tableau, Excel (Pivot Tables, VLOOKUP, Charts, Dashboards)
- **Programming Languages:** SQL (Joins, Queries, Aggregations), Python (Pandas, Matplotlib, Data Wrangling)
- **Database Management:** MySQL, PostgreSQL, Microsoft SQL Server, Database Optimization, Query Performance.
- **Data Cleaning & Transformation:** Missing values, data standardization, preprocessing techniques, data validation
- **Statistical Analysis:** Descriptive statistics, hypothesis testing, regression models, forecasting, predictive analytics

WORK EXPERIENCE

Data Analyst

ABC Corp

August 2023 – Present

Ontario

- Optimized complex SQL queries to enhance database efficiency by 30%, reducing query execution time by 2.5x and improving ETL pipeline performance, database indexing, query optimization strategies, and partitioning techniques.
- Developed flexible, interactive dashboards in Power BI, enabling real-time KPI tracking, drill-down analytics, and reducing reporting errors by 25% through automated data validation, DAX expressions, and row-level security (RLS).
- Implemented data-cleaning pipelines using Python (Pandas, NumPy, & SciPy), improving data accuracy by 35%, and ensuring seamless data integration across sources, leveraging API automation and data normalization techniques.
- Conducted predictive modeling using regression (Linear, Ridge, & Lasso), enhancing business intelligence capabilities, feature engineering, and increasing forecasting accuracy by 20% through hyperparameter tuning and model evaluation.
- Automated Excel-based financial & operational reports using VBA macros, Power Query, Power Automate, reducing manual effort 40 hours/month, streamlining data transformation workflows with pivot tables & conditional formatting.

PROJECT EXPERIENCE

Debit Flexi Limit

Project Manager, Ontario

7 Weeks

- Engineered mobile banking application for managing short term & long term debit card limit adjustments, integrating RESTful APIs & secure token, and enhancing transaction flexibility 35%, improving user scalability across banking.
- Implemented four security validation layers, incorporating AES 256 encryption, multi factor authentication (MFA), OAuth 2.0 protocols, and real-time fraud detection algorithms, reducing unauthorized access incidents by 50%.
- Led a cross-functional team of ten developers, testers, analysts, overseeing Agile Scrum methodologies, CI/CD pipeline integration, adherence to OWASP security guidelines, ensuring compliance with technical standards, achieving a 20%.
- Conducted user acceptance testing with 5 detailed test scenarios, executing over 50 test cases using Selenium & JMeter, refining system usability and security, leading 40% reduction in reported post deployment issues, 25% improvement.
- Integrated AI-driven anomaly detection using machine learning algorithms to analyze transaction patterns, anticipatory identifying fraudulent activities, reducing fraud-related incidents by 30%, and enhancing financial security compliance.

UK Road Accident Data Analysis and Dashboard Development

Data Analyst, British Columbia

12 Weeks

- Designed an interactive Power BI dashboard analyzing casualty trends, accident types, and vehicle involvement, integrating DAX functions and real-time data connections, increasing decision-making for safety improvements by 30%.
- Developed five automated data processing workflows in Excel using Power Query, VBA macros, data validation rules, streamlining data cleaning & transformation, reducing reporting errors 45% and improving dataset consistency 50%.
- Applied advanced data visualization techniques, including heatmaps, geospatial mapping, drill-through reports, converting accident data into five key analytical insights, enhancing pattern recognition & risk assessment accuracy 25%.
- Collaborated with four stakeholders, including data analysts and policymakers, to define dashboard requirements, optimizing SQL-based data extraction and report generation, decreasing data analysis turnaround time by 20%.
- Administered predictive analytics using time series forecasting & regression models (ARIMA & Ridge Regression) to analyze accident frequency trends, improving risk assessment accuracy 30%, and supporting safety interventions.

EDUCATION

Post Graduate Degree in Information Technology in Business Analysis

Conestoga College, Ontario

May 2023 – August 2024

Bachelor of Technology in Computer Science Engineering

Parul University, India

June 2018 – October 2021