Data Analyst

TAYYABA ZAHID

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Skills

- SQL (joins, aggregation, query writing)
- Python (Pandas, NumPy, SciPy, MatPlotLib)
- Excel (VLookup, Conditional Formatting, Pivot Tables)
- Microsoft Power BI (EDA, DAX, Reports)

Projects

Hours vs Score Prediction   July 2024
Internship Project
- Used Python libraries like Pandas, seaborn, and matplotlib for data preprocessing and visualizing
- Utilized machine learning algorithm Linear Regression to predict the impact of studying hours on scores of students
- Train the 80% of the data and testing data was 20%.
- Evaluated the model using MAE, MSE, RMSE, R^2. The R^2 value for this model is 0.95 which can be interpreted as the model having a 95% explanatory power.
- The model predicted a score of approximately 98.64 for a student who studies 9.75 hours, which is a reasonable prediction given the data.

US Sales Growth Monitor   July 2024
Internship Project
- Dataset was provided from the organization consists of 13 columns and 9994 rows, applied data transformation steps to cop up with data accuracy and quality.
- Performed Exploratory Data Analysis in **Microsoft Power BI** to identify the **weak areas** and their **Categorical Performances**.
- Created interactive and detailed dashboard to analyze the growth and revenue of different **Geographical Regions** and the factors affecting them

UK Rail Performance Analysis   May 2024
Challenge Project
- Extracted and cleaned data of 18 fields and 31654 records from **Power Query Editor** to ensure data quality and accuracy.
- Performed exploratory data analysis (EDA) in **Microsoft Power BI Power Query Editor** to identify Peak Travel Hours and Popular Routes.
- Created interactive dashboards in **Microsoft Power BI** to Analyze revenue from different ticket types and classes Diagnose on-time performance and contributing factors.

Retail Store Analysis   March 2024
Personal Guided Project
- Accessed the dataset from an open source Github data repository to ensure data accuracy.
- It consists of 2 tables one table consists of 1501 rows and 7 columns whereas the other table consists of 501 Rows and 5 columns
- Transformed and cleaned the data using **Power Query** in Power BI to prepare it for analysis.
- Created an interactive **Power BI dashboard** to visualize key financial metrics, such as revenue, Sales behaviors, profit margins, and Customer Behaviors, enabling stakeholders to make data-driven decisions.

Work Experience

DATA SCIENCE AND BUSINESS ANALYTICS INTERN – The Spark Foundation **–**Remote   July 2024 - August 2024
- Developed Power BI dashboards to visualize and analyze data.
- Designed and implemented Problem Solving skills to smooth the process and it reduced the processing time by 50%.
- Led data entry personnel, ensuring accurate and efficient data input.
- Used machine learning algorithms to predict the future findings based on the data.

Education

BACHELOR OF SCIENCE IN COMPUTER SCIENCE – University of Gujrat – Gujrat, Pakistan   October 2022
Majors: Data Science, Operations and Data Analytics, Deep Learning