OMKAR BHOSLE

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Mumbai

Objective

Motivated and detail-oriented **Data Analyst** with a PG Diploma in **Big Data and Analytics**, skilled in **data visualization**, **predictive modeling**, and **data engineering**. Proven expertise in tools like **SQL**, **Python**, **Tableau** and **Power BI** coupled with a passion for solving complex data challenges. Demonstrated success in **optimizing workflows**, **extracting insights** and delivering actionable solutions across domains such as **aviation**, **e-commerce**, and **advertising analytics**. Ready to contribute to data-driven decision-making in **tech-driven industries**.

Skills

Programming Languages:

Python (Pandas, NumPy, SciPy, Scikit-learn), SQL (MySQL, PostgreSQL)

Data Visualization Tools:

Tableau, Microsoft Power BI, Matplotlib, Seaborn

Machine Learning Techniques:

Supervised/Unsupervised Learning, Clustering, Feature Selection

Data Manipulation:

• ETL (Extract, Transform, Load), Data Cleaning, Feature Engineering

Database Management:

MySQL, PostgreSQL

Spreadsheet Analysis:

Advanced Excel (Pivot Tables, Conditional Formatting, VLOOKUP)

Projects

FLIGHT FARE ANALYSIS AND PREDICTION - August 2024

- Developed a flight price prediction model using Random Forest Regressor, K-Nearest Neighbors, and Decision Tree Regressor, achieving a high R² score of 96.08% after performing hyperparameter tuning.
- Streamlined data preprocessing by implementing automated scripts for data cleaning and encoding, increasing data processing capacity by 200% while maintaining high accuracy.
- Conducted Exploratory Data Analysis (EDA) to explore relationships between features and flight prices, utilizing Seaborn for visualizing correlations and trends in the data.
- Conducted systematic adjustments in **hyperparameters** using **RandomizedSearchCV** on the **Random Forest algorithm**; achieved a reduction of **Mean Absolute Error** (MAE) by 15 units while improving model reliability in predictions across datasets.

VEHICLE ADVERTISEMENTS ANALYSIS - June 2024

- Cleaned and pre-processed vehicle advertisement data by handling missing values, encoding categorical variables using
 Label Encoding, and extracting brand information from nested columns with ast.literal_eval.
- Employed Recursive Feature Elimination (RFE) to select the most important features, improving model accuracy and computational efficiency by reducing the number of irrelevant or redundant features.
- Applied K-means clustering along with Silhouette Score and Elbow Method to determine the optimal number of
 clusters, segmenting users based on ad behaviour for more targeted marketing strategies.
- Analysed geographical distribution of vehicle ads and monthly supply-demand trends, uncovering key market dynamics and identifying potential areas for pricing adjustments and growth opportunities.

ONLINE BOOK MANAGEMENT SYSTEM - April 2024

- Developed an **Online Book Management System** using **Stream lit** for the user interface and **Python** for backend functionality, streamlining book catalogue management and order processing.
- Integrated MySQL database for efficient management of users, books, and orders, implementing CRUD operations and user authentication features.
- Designed and implemented key features, including **user login**, **book catalogue**, **shopping cart**, and **order processing**, providing a seamless shopping experience.
- Ensured robust data integrity by incorporating encryption standards for secure user data protection, reducing unauthorized access attempts to zero during the analysis phase.

Achievements

- Earned HackerRank Gold Badge in SQL and Python, ranking in the top 10% globally. (HackerRank)
- Achieved a 90% accuracy rate in solving challenges on LeetCode in Python and SQL (LeetCode)
- Certified in SQL and Python on HackerRank, showcasing advanced technical proficiency. (HackerRank)

Education

- PG DIPLOMA IN BIG DATA ANALYTICS CDAC, Mumbai August 2024
- BACHELOR OF ENGINEERING Mumbai University, Mumbai April 2022
- **HSC** Maharashtra State Board, Mumbai April 2017
- SSC Maharashtra State Board, Mumbai April 2015