Sarvesh Jagannivasan

Data Analyst

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Profiles

Sarvesh Jagannivasan
LinkedIn

SarveshJagannivasan0512
GitHub

Skills

Python

Pandas, Scikit-Learn, Statsmodel, Scipy, Numpy, Seaborn, Matplotlib, Plotly

SQL

Joins, Subqueries, Query Optimization, CTE, Views, MySQL, Window Functions, Advanced SQL

Statistics Analysis

Bayesian Modeling, Hypothesis Testing, Shapiro, ANOVA, A/B Testing, Z-Test, Breusch-Pagan test, Durbin-Watson Test, T-Test, Levene's Test, Chi-Square Test, Statistical Modeling

Machine Learning

Regression, Classification, Clustering, Hyperparameter Tuning, PCA, Regularization

Data Visualization

Power BI

Soft Skills

Critical Thinking, Adaptability, Time Management, Collaborative, Effective Communication, Organizational Skill, Communication

Education

Great Lakes Institute of Management
Data Science and Engineering
85%
Nov 2023- June 2024
Post Graduate Program

E-Portfolio: https://eportfolio.mygreatlearning.com/sarvesh-jagannivasan

SRM Easwari Engineering College, Chennai
Mechanical Engineering
CGPA-8.64
August 2017- April 2021
Bachelor of Engineering

Profile Summary

Data Analyst with 2+ years of experience managing complex datasets and providing actionable insights. Proficient in SQL, Python, and data visualization tools. Strong foundation in statistics and machine learning, skilled in developing predictive models to optimize business operations.

Experience

Tata Consultancy Services **July 2021- September 2023**
System Engineer Chennai

- Transformed and analysed Facility Management System (FMS) data using Python and SQL for a banking project, improving KPIs like space utilization and energy consumption, resulting in a 15% boost in operational efficiency. Collaborated with stakeholders to implement actionable insights.
- Applied EDA and data mining techniques to identify patterns in facility usage, improving resource allocation and driving cost reductions. Conducted segmentation and deep dives into operational data, enhancing asset management efficiency
- Utilized advanced SQL (window functions, CTEs, Joins) and Python for anomaly detection and data transformation, improving maintenance resolution times by 10% and optimizing cost forecasting.

Projects

Predicting Patient Readmissions with 10-Year U.S Hospital Data **May 2024**
A Multiclass Classification methodology using Python

- Conducted in-depth EDA on 10 years of healthcare data using Matplotlib, Seaborn, and Plotly, visualizing key metrics like readmission rates, patient demographics, and risk factors. Leveraged statistical techniques such as ANOVA, Chi-Square tests, and T-tests to derive insights from healthcare data. Implemented robust data cleaning and feature engineering to handle missing values and outliers, ensuring high-quality inputs for model training.
- Developed and optimized a Gaussian Naive Bayes model to predict high-risk patients for 30-day readmissions, enabling proactive care management and better resource allocation. Achieved an 11% accuracy improvement (from 49% to 60%) through model optimization and handling class imbalance.

SQL-Driven IPL Bidding and Leaderboard System with Dynamic Match Scheduling and Point Management **April 2024**
Leveraging SQL and Advanced SQL

- Developed optimized SQL queries utilizing aggregation functions, JOINs, and window functions (RANK, ROW_NUMBER) to calculate win percentages, match statistics, and rank IPL teams and bidders. Efficiently handled complex business logic through correlated subqueries, HAVING clauses, and CASE statements for conditional calculations like toss win rates and performance evaluation.
- Applied DATE functions and GROUP BY for time-based analysis, including month-wise bidder points and tournament duration. Combined JOINs and subqueries to generate detailed, accurate reports, enabling robust and flexible insights into team and bidder performance.

Truck Convoy Management **July 2024**
A Power BI-driven analysis

- Analyzed and visualize key KPIs in Power BI, such as driver performance and revenue growth, to optimize truck convoy operations and improve financial performance.
- Enhance customer retention by targeting repeat buyers with personalized incentives and engage them through regular communication across various channels