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, Tableau, excel

Soft Skills

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

Google Sheets

◦ Education ◦

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

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

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

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
System Engineer
Chennai
July 2021- September 2023

- Utilized Python and SQL to transform and analyse Facility Management System (FMS) data for a banking project, focusing on KPIs like space utilization and energy consumption. These efforts resulted in a 15% improvement in operational efficiency. Collaborated closely with stakeholders to implement actionable insights.
- Applied exploratory data analysis (EDA) and data mining techniques to identify patterns in facility usage, uncovering correlations that improved resource allocation significantly. Conducted behavioural segmentation and deep dives into operational data, driving cost reductions and more efficient asset management.
- Detected anomalies in facility operations using advanced SQL techniques such as window functions, CTEs, Joins, Sub-queries and Python for data cleaning and transformation. Identified root causes of inefficiencies, which led to a 10% improvement in maintenance resolution times and optimized operational costs forecasting.
- Developed customized dashboards and reports using Power BI and Matplotlib to visualize key insights for stakeholders. Proactively identified trends in energy consumption and service requests, providing data-driven insights that informed strategic decisions and boosted overall efficiency

Projects

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

- Conducted **exploratory data analysis (EDA)** on 10 years of healthcare data using **Matplotlib**, **Seaborn**, and **Plotly** to visualize readmission rates, patient demographics, and risk factors. Performed comprehensive data cleaning and transformation tasks using **Numpy**, including handling missing values, correcting inconsistencies, and normalizing data to ensure accuracy and consistency.
- 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
Leveraging SQL and Advanced SQL
April 2024

- Developed optimized SQL queries to calculate win percentages and match statistics for IPL teams and bidders. Used aggregation functions (`COUNT`, `SUM`), JOIN operations across multiple tables, and ORDER BY for ranking results, ensuring efficient retrieval of data.
- Applied correlated subqueries and HAVING clauses to handle complex business logic, such as finding the top 5 bowlers by wicket count without using LIMIT or determining the top and bottom performers based on total bidding points. Leveraged window functions (`RANK`, `ROW_NUMBER`) to rank bidders by performance.
- Leveraged CASE statements for conditional calculations like toss win percentages and match win rates based on toss results. Handled conditional aggregates and calculated percentages using GROUP BY for performance evaluation of teams and bidders, ensuring accuracy in reporting.
- Utilized DATE functions and GROUP BY to perform time-based analysis, such as calculating month-wise total bidder points, determining tournament duration, and extracting bidding year and month. Combined JOIN and subqueries to meet specific requirements, ensuring robust and flexible reporting.

Truck Convoy Management
A Power BI-driven analysis
July 2024

- 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