# Sarvesh Jagannivasan S

Data Analyst
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GitHub Profile
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## Core Skills

**Languages:** Python, SQL

**Libraries and RDBMS**: Pandas, Numpy, Scipy, Seaborn, Plotly, Matplotlib, Statsmodel, SciKit-Learn, MySQL

**Visualization**: Power BI, Tableau

**Statistical Analysis**: Hypothesis Testing, A/B Testing, Z-Test, T Test, Chi-Square Test, ANOVA Test

**Machine Learning**: Regression, Classification, Clustering, Hyper-parameter Tuning, PCA, Regularization, Neural Network (ANN)

**Soft Skills:** Problem Solving, Analytical Thinking, Effective Communication, Adaptability, Stakeholder Management, Collaboration, Communication, Decision Making

## Experience

**·System Engineer** *July 2021-Sep 2023*

*Tata Consultancy Services*

- Leveraged Python for data cleaning and transformation of Facility Management Datasets, uncovering trends in service requests and maintenance needs through exploratory data analysis.
- Enhanced key metrics like space utilization, asset performance, and energy consumption through advanced SQL queries. These optimizations resulted in a 15% increase in operational efficiency.
- Built interactive Power BI dashboards to visualize critical KPIs, including energy consumption and asset usage. This enabled stakeholders to make informed decisions and drive strategic initiatives.
- Conducted in-depth analysis using SQL and Python to gain actionable insights into maintenance processes and resource allocation. These insights led to a 10% reduction in resolution times and optimized cost management.

## Portfolio Projects

**·Predicting Patient Readmissions with 10-Year U.S Hospital** *July 2024*

*A Multiclass Classification methodology using Machine Learning*

- Performed comprehensive data cleaning and exploratory analysis on a decade of healthcare data using Matplotlib, Seaborn, and Plotly, visualizing key metrics like readmission rates and patient demographics. Utilized data mining techniques and applied statistical tests (ANOVA, Chi-Square, Z-tests) to uncover critical insights, and conducted extensive data cleaning to address missing values and outliers.
- Prioritized recall as the primary evaluation metric to minimize false negatives in predicting 30-day readmissions. Optimized a Gaussian Naive Bayes model, enhancing model performance and improving recall from 0.169 to 0.501 through effective handling of class imbalance, supporting proactive patient care and management.

**·SQL-Driven IPL Bidding and Leaderboard System with Dynamic Scheduling** *May 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 clauses 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.

**·Comprehensive Loan Performance Dashboard for Financial Insights** *Oct 2024*

*Using SQL Server Management Studio with Power BI*

- Created a robust Power BI-SQL dashboard to track essential loan metrics such as total applications, funded amounts, and loan quality. Leveraged DAX formulas and direct SQL queries to provide granular insights, including Month-to-Date and Month-over-Month analysis.
- Combined SQL queries and Power BI visualizations in a Details Dashboard, enabling users to assess financial health through metrics like Total Received Amount and Average Debt-to-Income Ratio (DTI).

## Education

**·Post Graduate Degree in Data Science and Engineering** 2023-24

*Great Lakes Institute of Management, Chennai* *Percentage*: 85

**.Bachelors in Mechanical Engineering** *2017-21*

*SRM Easwari Engineering College, Chennai* *CGPA: 8.64*