Praveen Satya Rajamanickam Vijayaraghavan

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# SUMMARY

# Data Analyst with 3+ years of experience in SQL, Python, and Power BI, specializing in data visualization and operational analytics. Experienced in CI/CD pipeline analytics, test automation data reporting, and anomaly detection to improve software quality. Strong background in ETL, cloud computing (Azure, Databricks), and AI driven analytics for business process optimization.

# WORK EXPERIENCE

## Data Analyst Intern, Copart Inc. (May 2024 – May 2025)

## Developed an interactive Tableau dashboard to track Key Performance Indicators (KPIs), optimizing operational visibility and reducing subhauler commission costs by $15,000 within 3 months.

## Enhanced BI reporting efficiency by optimizing 20+ dashboards using Tableau Optimizer and SQL best practices, enhancing user experience and improving dashboard load time for 10+ departments from 10 to 2 seconds.

## Created a yard productivity dashboard to track vehicles sold/received per headcount, identifying underperforming yards and driving a 15% efficiency improvement across 200+ locations.

## Implemented anomaly detection (AI Driven Analytics) using time series forecasting & Google BigQuery, reducing issue detection time from 3 days to 1 hour, preventing $10,000+ in revenue loss per quarter.

## Data Analyst, Capgemini (September 2020 – June 2023)

## Analyzed insurance claims data using SQL and data wrangling techniques to identify root causes of faulty reimbursements, leading to system enhancements that saved clients $30,000.

## Automated ETL workflows using Python and SQL, streamlining periodic revision of business criteria for car rentals and saving 25 hours per month for the clients.

## Created interactive Power BI dashboards and Excel reports to track team performance, enabling effective sprint planning and reducing sprint spillovers to zero within 3 months.

# PROJECTS

**Forecasting Bike Share Demand | R Studio** (December 2024 – January 2025)

## Uncovered bike rental demand patterns, revealing peak usage during commuting hours and summer; developed a VAR model that outperformed ARIMAX with an R-squared of 0.298 on unseen data, providing data-driven insights for optimizing bike availability in urban cities.

**Online Shopper’s Purchasing Prediction | Python** (November 2024 – December 2024)

## Detected key sales trends, showing spikes in May and November but low conversion rates; optimized revenue prediction by applying SMOTE for class balance and selecting Random Forest as the best model, achieving 93% recall and accuracy over a naïve baseline of 85% accuracy.

**Fleet Risk Analytics | Hadoop & Tableau** (November 2024 – December 2024)

## Optimized fleet safety by leveraging Hadoop, Hive, and Tableau to analyze telematics data, identifying high-risk drivers and truck models like Oshkosh, enabling targeted risk mitigation strategies that improved operational safety and reduced accident risks.

**Second-Hand Cars Market Analysis | Tableau** (October 2024 – November 2024)

## Created a Tableau dashboard to investigate mid-tier second-hand car pricing, revealing that mileage drives price more than a model year and that brands like Porsche and Mercedes-Benz maintain high prices despite high availability, thus helping buyers understand pricing dynamics.

**Sales Dashboard Analysis | Power BI** (November 2023 – December 2023)

## Developed a sales analysis dashboard for a major retailer, identifying revenue decline, high customer concentration, and market expansion opportunities, leading to a 20% potential improvement in revenue forecasting and actionable strategic recommendations.

# SKILLS

## Data Analytics: SQL, Python, R, Google BigQuery, Tableau Prep, Alteryx, STATA, SAS, A/B Testing

## Data Visualization: Tableau, Microsoft Power BI, Microsoft Excel, Matplotlib, Seaborn

## Big Data: Hadoop, Spark, Hive, Impala, Flume, MapReduce, Yarn

## Cloud & Database Management: Google Cloud Platform (GCP), Azure, Databricks, GitHub

## Data Science: XGBoost, Random Forests, Linear/Logistic/Multilinear Regression, Hypothesis Testing, PyTorch, Hugging Face

# CERTIFICATIONS

## Tableau, Power BI, Excel, Azure, Databricks, and Alteryx

# EDUCATION

The University of Texas at Dallas(August 2023 – May 2025)

**Master of Science in Business Analytics and Artificial Intelligence** (**3.93 GPA)**

**Coursework**: Business Analytics with R, Data Visualization, Big Data, Advanced Statistics, Predictive Analytics, Prescriptive Analytics, Machine Learning, Econometrics & Time Series Analysis

BITS Pilani (August 2016 – September 2020)

Bachelor of Engineering, Manufacturing Engineering

# PERSONAL ACCOMPLISHMENTS

**2x Dean’s Excellence Scholar** | Awarded to the top 5% of the program (August 2023 – May 2025)

**Alteryx SparkED Datathon Winner** | Awarded $4000 cash prize (March 2024 – April 2024)