Praveen Satya Rajamanickam Vijayaraghavan

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# SUMMARY

# Business Intelligence Developer with 3+ years of experience in SQL, Python, and BI tools (Tableau, Power BI, Google BigQuery). Skilled in dashboard development, ETL, and data aggregation to drive operational insights. Proven ability to optimize BI platforms, enhance reporting performance, and collaborate with cross-functional teams to deliver data-driven solutions.

# WORK EXPERIENCE

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

## Developed an interactive Tableau dashboard to track Key Performance Indicators (KPIs), collaborating closely with cross-functional teams (Operations, Finance, and Logistics) to optimize operational visibility, 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 using time series forecasting & Google BigQuery, reducing issue detection time from 3 days to 1 hour, collaborating with data engineering teams to prevent $10,000+ in revenue loss per quarter.

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

## Analyzed insurance claims data using SQL and data wrangling techniques, collaborating with business analysts and IT teams 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, working closely with project managers and stakeholders to enable effective sprint planning, 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: Vertica, Presto, GCP, AWS

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

# CERTIFICATIONS

## Tableau, Power BI, Excel, Vertica, Presto, 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)