Praveen Satya Rajamanickam Vijayaraghavan

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# SUMMARY\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Data Analyst with 3+ years of experience in SQL, Python, and BI tools (Tableau, Power BI, BigQuery), specializing in building automated reporting pipelines, root cause analysis, and system performance monitoring. Proven success in partnering with cross-functional teams to enhance data accuracy, develop scalable automation solutions, and deliver $55K+ in cost savings. Adept at transforming complex datasets into actionable insights and supporting data operations at scale.

# EDUCATION\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**The University of Texas at Dallas** Aug 2023 – May 2025

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

## Awards: 2x Dean’s Excellence Scholar. Awarded to the top 5% of students for outstanding academic performance.

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

**BITS Pilani** Aug 2016 – Sept 2020

*Bachelor of Engineering, Manufacturing Engineering*

# 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 automated anomaly detection and alerting using time series forecasting (ArimaPlus model)& Google BigQuery, reducing issue detection time from 3 days to 1 hour, preventing $10,000+ in revenue loss per quarter.

## Collaborated with cross-functional partners and engineering teams using GitHub to maintain automation workflows and ensure data accuracy and performance across Airflow DAGs and Python pipelines.

## Data Analyst, Capgemini *Sept 2020 – Jun 2023*

## Performed root cause analysis on insurance claims using SQL and data wrangling, driving enhancements that resolved data discrepancies and saved $30,000.

## Designed and developed automation solutions for ETL workflows using Python and SQL, supporting data corrections and improving data operations efficiency by saving 25 hours of manual effort per month.

## 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**   *Jan 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**  *Dec 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**  *Nov 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**  *Oct 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** *Dec 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.

# LEADERSHIP EXPERIENCE AND HACKATHONS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Winner, Alteryx SparkED Hackathon** *Mar 2024*

## Competed against 20+ university teams and secured 1st place ($16,000 prize) by leveraging Alteryx and Tableau to analyze Texas demographic, economic, and infrastructure data, uncovering key insights on population trends and real estate.

## Mentor, Business Analytics Leadership Council (BALC) *Aug 2023 – May 2024*

## Mentored 10+ Spring 2024 Business Analytics cohort incoming students by providing guidance on coursework and career strategies.

## Helped students enhance their job search approach via weekly sessions, leading to improved confidence in networking and recruitment success.

## SKILLS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Data Analytics & Visualization: SQL, Python, R, Alteryx, Tableau, Power BI, Excel, A/B Testing

## Big Data & Cloud Technologies: Hadoop, Spark, Hive, Google Cloud Platform (GCP), Amazon Web Services (AWS), DB2