Praveen Satya Rajamanickam Vijayaraghavan

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

# Data Analyst with 3+ years of experience driving data-led business transformation using SQL, Python, and advanced BI tools (Tableau, Power BI, BigQuery). Proven ability to deliver actionable insights, optimize operational metrics, and enhance training and productivity workflows across diverse teams. Adept at working with large datasets to diagnose performance gaps, develop scalable reporting ecosystems, and support strategic decision-making for customer-facing functions.

# 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, Predictive & Marketing Analytics, Prescriptive Analytics

**BITS Pilani** Aug 2016 – Sept 2020

*Bachelor of Engineering, Manufacturing Engineering*

# WORK EXPERIENCE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

## Built an interactive Tableau dashboard to monitor productivity KPIs across teams, enabling data-driven performance coaching and reducing subhauler commission costs by $15,000 in 3 months.

## Enhanced reporting ecosystems for 10+ departments by optimizing 20+ dashboards, improving accessibility and enabling faster insights for business leaders and training managers.

## Designed a yard productivity dashboard to benchmark performance per headcount, enabling leadership to identify skill gaps and provide targeted coaching, improving efficiency by 15% across 200+ sites.

## Implemented anomaly detection 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.

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

## Analyzed claims workflows using SQL and data wrangling techniques to identify process inefficiencies, driving data-backed operational changes that enhanced service delivery and 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.

## Designed Power BI dashboards to monitor team performance and training effectiveness, enabling sprint planning adjustments 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 Power BI sales dashboard to uncover declining engagement trends and recommend strategic coaching for sales teams. Insights supported a 20% revenue forecasting improvement and better alignment between marketing and frontline customer advisors.

# 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+ analytics students through the Business Analytics Leadership Council, helping them improve productivity, coursework performance, and job-readiness through weekly strategy sessions.

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

## Technical Skills: SQL, Excel, ETL, Power BI, Tableau, Google BigQuery, Python, Time Series Forecasting, Data Visualization, LMS platform exposure, Statistical Analysis

## Soft Skills: Strategic thinking, performance gap analysis, stakeholder communication, cross-functional collaboration, technical writing, and training impact evaluation