Praveen Satya Rajamanickam Vijayaraghavan

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

# Certified Tableau and Alteryx professional with 3+ years of experience as a Data Analyst, leveraging SQL, Python, and BI tools (Power BI, Google BigQuery) to drive data-driven decision-making. Skilled in ETL, anomaly detection, and predictive analytics, optimizing reporting processes and automating workflows. Proven track record of delivering $100K+ in revenue savings.

## SKILLS & CERTIFICATIONS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Certificates: Tableau Desktop Specialist, Alteryx Designer Core Certification

## 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), DB2

## Machine Learning & Statistical Modeling: XGBoost, Random Forests, Regression (Linear, Logistic, Multilinear), Hypothesis Testing, Pytorch

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

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

## Prevented $100K+ in quarterly revenue loss by enabling rapid anomaly detection across 70+ business metrics using a platform built with BigQuery and Airflow.

## Achieved $325K in potential savings in 6 months by building a Tableau dashboard benchmarking AI vs. manual subhauler assignments, revealing 45% adoption, overspending, and high-cost usage.

## Freed up 15 FTE analysts and improved decision confidence by 85% by deploying Gemini AI-powered root-cause analysis, cutting investigation time from 40+ hours to zero manual effort.

## Accelerated insight generation by developing an AI-driven Data Assist tool that reduced ad-hoc analysis time from days to 5 seconds, enabling junior analysts and business users to self-serve insights and minimize reliance on the reporting team.

## Enhanced user experience for 100+ stakeholders by improving Tableau dashboard load times by 75% (20s → <5s) through SQL query optimization and implementing Tableau performance best practices, leading to increased adoption and engagement.

## Boosted yard efficiency by 15% across 200+ locations by creating a productivity Tableau dashboard tracking vehicles sold/received per headcount and identifying underperformance.

## Elevated data accessibility by showcasing the AI Data Assist tool to 100+ employees, enabling non-technical users to perform instant, no-code analytics and earning leadership praise for democratizing data insights across the organization.

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

## Saved $30K annually by analyzing insurance claims data with SQL and identifying root causes of faulty reimbursements, driving system enhancements.

## Increased operational efficiency by automating ETL workflows in Python and SQL, streamlining periodic revisions of car rental business criteria and saving 25 hours per month for the ops team.

## Eliminated sprint spillovers within 3 months by building interactive Power BI dashboards and Excel reports to track team performance and enable effective sprint planning.

# PROJECTS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Customer Churn Analysis | Power BI** *May 2025*

## Built an interactive Power BI dashboard to analyze churn behavior across 7+ customer segments for Databel, uncovering key drivers like plan mismatch, contract type, and age - identifying seniors (38% churn) and low-data unlimited plan users as the highest-risk groups.

**Forecasting Bike Share Demand | R Studio**   *Jan 2025*

## Developed a VAR model, with an R² of 0.30 on unseen data, to uncover bike rental demand patterns, revealing peak usage during commuting hours and summer seasons and enabling data-driven optimization of bike availability in urban areas.

## Built an automated data pipeline for real-time bike rental ingestion and forecast storage using MySQL and Airflow, reducing manual data handling and ensuring timely availability of forecasts for decision-making and dashboard updates.

**Online Shopper's Purchasing Prediction | Python**  *Dec 2024*

## Compared Logistic, SVM, and Random Forest models based on Recall to identify the best model for classifying online shoppers' purchasing intent and fine-tuned the model using SMOTE to achieve a 93% accuracy.

**Fleet Risk Analytics | Hadoop & Tableau**  *Nov 2024*

## Processed 10M+ telematics and fleet records using Hadoop, Hive, and Pig to identify high-risk driver behavior and enable targeted safety interventions—reducing accident rates by 20%.

## Enabled real-time risk monitoring with Tableau dashboards powered by Big Data insights, improving fleet decision-making speed and operational efficiency across 50+ locations.

**Second-Hand Cars Market Analysis | Tableau**  *Oct 2024*

## Designed a Tableau dashboard to analyze 4K+ second-hand cars to identify how factors like mileage, model year, and model availability affect the car's market price.

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

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

*Master of Science in Business Analytics and Artificial Intelligence (3.94 GPA)*

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

## Relevant Coursework: Business Analytics with R, Big Data, Statistics, Predictive Analytics, Machine Learning, Time Series Analysis

**BITS Pilani** Aug 2016 – Sept 2020

*Bachelor of Engineering, Manufacturing Engineering (3.0 GPA)*

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

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