Praveen Satya Rajamanickam Vijayaraghavan

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

# Data Analyst with 3+ years of experience delivering actionable insights through advanced analytics, data mining, and trend analysis using tools such as SQL, Python, Tableau, and Power BI. Proven ability to translate business problems into technical solutions across hybrid cloud environments (GCP, AWS). Strong foundation in transforming large datasets into strategic recommendations that improve performance, reduce costs, and drive executive decision-making. Experienced in self-service BI tools, data quality management, and cross-functional collaboration.

# 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 a suite of self-service Tableau dashboards for performance and trend monitoring across 200+ locations, enabling senior leaders to make data-driven decisions and reduce subhauler commission costs by $15,000.

## Implemented anomaly detection using ARIMA-based time series forecasting on Google BigQuery, reducing issue detection time by 90% and preventing quarterly revenue loss of over $10,000.

## Collaborated cross-functionally with analytics and engineering teams using GitHub and Airflow to manage data pipelines and ensure data consistency, quality, and governance across reporting outputs.

## Created a yard productivity dashboard linking KPIs across regions, resulting in a 15% improvement in operational efficiency.

## Presented findings and trend insights to non-technical stakeholders through visual storytelling using Tableau and PowerPoint.

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

## Extracted and connected claims and transaction data across multiple sources to identify root causes of payment delays, driving system improvements that saved clients $30,000.

## Designed automated ETL workflows using SQL and Python, improving data transformation and cleansing accuracy while reducing processing time by 25 hours monthly.

## Developed Power BI dashboards and Excel models to monitor team KPIs, enhancing sprint planning and eliminating sprint spillovers in 3 months.

## Conducted quality assurance checks to identify inconsistencies in dashboard outputs, escalating issues to leadership and ensuring continuous improvement in data delivery.

## Supported transformation initiatives by synthesizing customer trends and developing executive-ready reports for business units.

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

**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.

**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 & BI Tools: SQL, Python, R, Tableau, Power BI, Excel, Alteryx Big Data & Cloud: Google BigQuery, Hadoop, Spark, Hive, AWS, GCP Analytics & Modeling: A/B Testing, Predictive Modeling, Time Series, Hypothesis Testing, Machine Learning (Random Forest, XGBoost, Regression) Business Skills: Strategic Analysis, Business Acumen, Data Quality Management, Trend Monitoring, Presentation Skills, Cross-functional Collaboration, Self-service BI Tools