

Pratheep Raju Sridharan

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SUMMARY

A data analyst with 4 years of analytics experience and knowledge in the Fintech, Supply chain, Consulting, and Manufacturing domains. Proficient in collecting, analyzing, and presenting decisive insights from large datasets using SQL, Python, Excel, PowerBI, and Tableau.

EDUCATION

University of Texas at Dallas, Richardson, TX

August 2021 – May 2023

Master of Science in Business Analytics | Dean's Excellence Scholarship Recipient

GPA 3.8

Dr.B.R Ambedkar National Institute of Technology, Jalandhar, India

August 2013 – May 2017

Bachelor of Technology in Industrial and Production Engineering

GPA 3.5

SKILLS AND PROGRAMMING LANGUAGES

Programming and Databases: SQL, Python, R, SAS (Proc SQL), DAX, Excel VBA, MySQL, SQL Server, AWS Redshift, MongoDB, Snowflake

Analytical and Visualization Tools: Tableau, Power BI, Microsoft Office suite, Advanced Excel (VBA, Pivot table, LOOKUP)

Big Data and Cloud Services: AWS (S3, Glue, Athena, SageMaker, Redshift, DynamoDB), Hadoop, Spark, Airflow

Statistical Models (ML): Linear Modeling, Logistic Regression, Random Forest, Clustering, ANOVA, Time Series forecasting, Hypothesis Testing

Analytical Skills: Business Intelligence, Data wrangling, Data mining, Data integration, Visualization, Data warehousing, Root cause analysis

Interpersonal Skills: Ownership, Decision-Making, Critical-Thinking, Problem-Solving, Team Player, Leadership, Communication, Presentation

PROFESSIONAL EXPERIENCE

Data Scientist Intern - Blue Ridge Solutions, Atlanta, GA

August 2022 – December 2022

- Built a **classification model** using ensemble algorithms (XGBoost, LGBM) in **python** with an accuracy of 90% to reduce model training time by 12%
- Collaborated with the product team to understand reporting needs of the customers and established performance tracking by **building reports in PowerBI** extracting JSON data from **AWS S3**
- Performed **hyperparameter tuning** increasing the prediction model accuracy by 9% to **forecast demand** and optimize inventory for retail clients
- Supported in design, development and deployment of seasonal **forecasting models** using **SARIMA and Prophet** algorithms with 87% accuracy

Process Excellence Analyst - CRED, Bengaluru, India

January 2020 – August 2021

- Extracted **financial data** (payments and reconciliation) from various data sources (**AWS redshift, DynamoDB**), conducted analysis using **SQL** and proposed **process improvement** suggestions reducing payment failures by 5% and cutting transaction costs by 3%
- Performed in-depth ad hoc analysis on **contact center data** (tickets, impressions, surveys) using **SQL and Python** to **create data models** and recommended strategies to reduce customer support contacts by 20%
- Designed **15+** interactive **dashboards** and advanced real-time **data visualizations** in **Tableau** for the senior management to monitor business metrics (**KPIs**), display statistical analysis and provide actionable insights to identify and solve critical business problems
- Collaborated with the **data science** team to build classification and forecasting **machine learning models** to improve customer satisfaction by 17%
- Setup **data workflows** and maintained **data pipelines** using **ETL** with the data engineering team to extract tickets data at 15-minute intervals
- Co-ordinated with **cross-functional stakeholders** to gather requirements, define, build, and deliver solutions for customer facing problems through **Agile Scrum methodology** to manage operational aspects of the product and drive business excellence

Lean Engineer - Gemba Concepts, Bengaluru, India

January 2018 – December 2019

- Conducted **financial analysis** across operations and developed a **product costing model** using **Excel VBA** to increase revenue by 15%
- Developed databases in **SQL Server**, drafted queries for data analysis, established an inventory management system, and generated data visualizations in **Tableau** to analyze trends and track **key performance indicators**, leading to a 20% decrease in inventory costs
- Using analytical methods and **Lean six-sigma** methodologies, achieved cost reduction of \$90,000 through **continuous improvement** of processes
- Cyclically evaluate project scope, requirements, deliverables, and propose recommendations to client's business problems

ACADEMIC PROJECTS

Payments Default Prediction – Credit Risk Analytics (Python)

- Analyzed 30k+ credit card clients to create a logistic regression model and report the strongest predictors of payment default
- Examined 23 financial metrics and constructed an SVM model to predict the risk of payment defaults with an F1 score of 0.85

Medicare spend by physicians in the US – Healthcare data analytics (Tableau)

- Analyzed 10 million CMS claims data to segregate Physician's practicing Oncology based on their number of beneficiaries and claims
- Created Crosstab visualizations based on these segmentations and inferred insights for better beneficiary targeting

E-Commerce Goods Shipment – Supply Chain and Logistics Analytics (PowerBI, Python)

- Performed data processing and exploratory analysis on 0.2 M e-commerce orders in PowerBI to understand relationships and discover patterns
- Built a Multi-Output Decision Tree Regression model to determine the maximum range of e-commerce shipping time with an MSE of 0.05

Wildlife Data Engineering (MySQL, MongoDB, Relational Database)

- Structured and systematized a database by normalization of 1.8M records of national fire program survey data to maintain data integrity
- Performed data extraction, utilized data manipulation techniques to streamline data and tuned queries reducing execution time by 20%

LEADERSHIP EXPERIENCE AND ORGANIZATIONS

- Lead a team of 5 and won 1st place in a Hackathon project competition by CRED - Building a chatbot for new merchant collaboration
- Team leader of 3, placed 2nd in Costing Optimization competition by OpEx (IISE) - Costing using cycle time and engineering based approaches
- Officer at The EnVision Club and Member of Business Analytics Leadership Council (BALC) at the University of Texas at Dallas