

SURYA YOGANANTHAN

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EDUCATION

Master of Science in Business Analytics , <i>Northeastern University, Boston, MA</i>	Dec 2025
Relevant Coursework: Data Analysis, Database Management, Data Mining, Data Visualization, Forecasting	GPA: 3.65
Bachelor of Technology in Mechanical Engineering , <i>Sastram Deemed University, Thanjavur, India</i>	Aug 2023

PROFESSIONAL EXPERIENCE

Supply chain & Operations Analyst , <i>Bharat Petroleum Corporation Limited (Authorized Dealer) TN, India</i>	Dec 2023 - Present
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- Performed business operations and supply chain analysis across a 354-station regional network (53,404 KL per month) to support market entry, demand assessment, and capacity planning using data from marketing, finance, and logistics sources
- Managed end-to-end supply chain operations including procurement, inventory planning, replenishment, and fulfillment, overseeing \$96K+ in monthly purchases with zero stockouts through attention to detail in purchase order management
- Built Excel-based operational dashboards using pivot tables, lookup functions, and variance analysis to track 120+ daily metrics across inventory, sales, logistics, and compliance, enabling real-time decision making for operations management
- Aggregated data from multiple operational sources including tank readings, pump meters, invoices, and delivery logs to support daily issue resolution and operational decision making across cross-functional teams
- Designed inventory optimization and reorder point logic using demand forecasting and safety stock calculations, driving efficiency through a 4.3-day inventory cycle and 7 inventory turns per month
- Identified and eliminated root causes of operational defects through reconciliation and variance analysis, maintaining 99%+ stock accuracy and zero critical compliance issues by implementing process improvements

Key Results

- Scaled monthly volume 132% (34.6 KL to 80.3 KL) within four months, exceeding break-even volume by 228%
- Achieved profitability by month four, delivering approximately \$1.8K in monthly profit, 23.3% annual ROI, and a 4.3-year payback, outperforming industry benchmarks

Graduate Teaching Assistant , <i>D'Amore-McKim School of Business Boston, MA</i>	Sep 2025 - Dec 2025
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- Guided 190+ graduate and undergraduate students in hands-on work with SQL, Python, Excel, Alteryx, and Oracle SQL Developer, strengthening understanding of data wrangling, regression modeling, forecasting, and optimization
- Created and tested SQL scripts, Alteryx workflows, and Excel models for data validation and transformation, enabling end-to-end analytical workflows covering extraction, cleansing, integration, and aggregation for business cases
- Collaborated with faculty to identify and implement process improvements in course delivery, maintaining documentation and updating systems to support consistent learning outcomes

Operations Analyst Intern , <i>Mahindra & Mahindra Limited Pollachi, India</i>	Aug 2023 - Dec 2023
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- Planned and executed data-driven experiments using Design of Experiments and Response Surface Methodology, evaluating 13 experimental conditions to analyze the impact of key process variables on production quality with strong attention to detail
- Built and validated regression models and conducted ANOVA on process data, achieving 97.33% R² accuracy in forecasting tensile strength and hardness while identifying key drivers of variability using analysis tools
- Optimized process parameters based on statistical findings through problem-solving and cross-functional collaboration, contributing to a 30% improvement in material strength while reducing rework and repeat testing costs

ACADEMIC PROJECTS

Donor Propensity Modeling & Strategic Segmentation , <i>NU Philanthropy</i>	Dec 2025
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- Developed predictive models using Python, XGBoost, and LightGBM on 318,000+ records to prioritize high-value prospects, achieving a 37.7% capture rate in the top tier and reducing outreach volume by 90%
- Engineered behavioral features and segmentation logic to handle 53.9% missing demographic data, translating model outputs into actionable prioritization guidance for fundraising stakeholders through data analysis and reporting dashboards

U.S. Airfare Trend Analytics , <i>Northeastern University</i>	Dec 2024
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- Analyzed 3,000+ U.S. domestic airfare records spanning 2018 to 2024 using SQL, Excel, and Tableau to evaluate pricing trends, regional demand shifts, and post-pandemic recovery patterns across marketing and operations data
- Designed interactive dashboards to track fare variability, traffic volume correlations, and seasonality, enabling data-driven comparisons across regions and airport categories for real-time decision making

SKILLS

Supply Chain and Operations: Supply Chain Operations, Inventory Management, Logistics Coordination, Purchase Order Management, Demand Forecasting, Process Improvement, Operations Management, Driving Efficiency

Data Analysis and Tools: SQL, Python, Advanced Excel (Pivot Tables, Lookups), Tableau, Power BI, KPI Reporting, Reporting Dashboards, Trend Analysis, Variance Analysis

Collaboration & Problem Solving: Cross-Functional Collaboration, Attention to Detail, Problem Solving, Stakeholder Communication, Working Independently in Fast-Paced Environments