**BALAJI RAJ VELUCHAMY**

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# EDUCATION

**W. P. Carey School of Business, Arizona State University** May 2024

Master of Science in Business Analytics Tempe, AZ, USA

* Big Data Analytics, Specific interest in Inventory, Logistics under Supply Chain Analytics. (GPA – 4)

**Sri Venkateswara College of Engineering at Anna University** May 2019

Bachelor of Engineering , Automobile Engineering Tamil Nadu, India

* Manufacturing Technology, Engineering Graphics, Statistical & Operations Research. (GPA – 3.3)

# PROFESSIONAL EXPERIENCE

**Operational Excellence Lead** January 2021 – July 2023 Saint-Gobain Glass India pvt ltd. Tamil Nadu, India

* Leveraging Python in Jupyter for data cleaning, classifications, regressions, and clustering in a data and analytics project, PowerBI to find insights focusing on defect impact analysis and correlations with manufacturing parameters resulting in a notable 55% reduction in defects using Agile methodology.
* Led cross-functional teams with Supply Chain initiatives, resulting in identifying and implementing 80% of key improvements for project completion, optimizing overall efficiency utilizing Total Quality Management (TQM).
* Assessed cost reduction projects in coordination with manufacturing teams, focused on optimizing the Key Performance Indicators & contributing to achieve a 3% reduction in Manufacturing Cost (MFC) through data-driven analysis, project management, Business Intelligence, and production planning.
* Provided comprehensive training and hands-on coaching to Warehouse and Dispatch employees, imparting practical knowledge on 8 different Kaizen problem-solving tools. Achieved 100% real-time adoption of these materials, enhancing decision-making and problem-solving capabilities among employees using technology.
* Spearheaded the optimization of pile separators' inventory storage used for Packaging, utilizing Workplace Layout Analysis techniques, which led to a remarkable 40% reduction in forklift movements, significantly improving Lead time efficiently.

**Technical Assistant** July 2019 – December 2020

Saint-Gobain Glass India pvt ltd. Tamil Nadu, India

* Attained 98% accuracy for the site KPI Excel dashboard, bringing data-driven decision-making for operational efficiency.
* Executed TQM and VSM to reduce sand plant water consumption by 75%, demonstrating the lean methodologies.
* Implemented Autonomous Management methodology, empowering operators, and optimal equipment performance.
* Led a Value Stream Mapping (VSM) study in packing area, resulting in 30% productivity improvement reducing lead time.

# PROJECT EXPERIENCE

**Excess Inventory Process Optimization at Teradyne Inc. – Capstone Project** Spring 2024

* Employed Python for in-depth analysis of resources, merging 3 different datasets based on unique columns and meticulously understanding the attributes of each column to create a data dictionary for reference.
* Optimized excess inventory by transitioning from a 12-month demand forecast to real-time tracking of lead time-based demand calculations for each part. Implemented changes to create a smoother flow of inventory, thereby reducing inventory holding costs and procurement expenses of the Supply Chain Management.

**Optimization of Business proposal process & Supply Chain decision modeling** Fall 2023

* Led a Lean Six Sigma initiative at Gentech Business Solutions, focusing on optimizing the Proposal Creation & Approval process. Improved SLA from 72.3% to 89%, resulting in a significant 1.92 billion revenue impact through DMAIC Methodology to enhance customer requirement satisfaction leveraging PowerBI, SQL, Minitab & Tableau tools.
* Optimized the global supply chain for Desert Cyclist Co(Case Study). through strategic decision-making algorithms based on Linear Programming focused on planning to reduce shipping costs and boost profitability.

# SKILLS & ACTIVITIES

* **Technical Proficiency:** Microsoft Office Suite, Python, SQL, Tableau, SAP, Inventory Management & PowerBI (Certified).
* **Skills:** Project Management, Design & Creativity, Observer, Statistical Analysis, Continuous Learning and Adaptability.
* **Activities:** Elected as Secretary of AAE (Association of Automotive Engineers 2017-18), Volunteered as School Pupil Leader at High school (2013-14), Participated in BAJA SAE INDIA as Steer Lead & member of Team Traxion (2018-19).
* **Interests:** Movies, Table Tennis, Music, Teaching, Foreign Languages & Skill Acquisition.