Viraj Shah

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EDUCATION

Georgia Institute of Technology, Atlanta, GA — Aug 2021 – Dec 2022
Master of Science in Industrial Engineering — GPA: 3.8/4
Courses: Transportation & Supply Chain Systems, Business Intelligence & Analytics, Management of Resources - Tech Firms

Dwarkadas J. Sanghvi College of Engineering, Mumbai, India — Aug 2017 – May 2021
Bachelor of Engineering in Mechanical Engineering — GPA: 9.77/10
Courses: Industrial Engineering & Management, Database and Information Retrieval, Project Management, Operations Research

TECHNICAL SKILLS

Programming: Python, R, MATLAB, VBA
Business Intelligence: Tableau, Power BI, Advanced Microsoft Excel (Power Pivot, Vlookup, KPIs)
Data Engineering: BigQuery, SQL, Azure Databricks
Business Skills: Material Planning, Requirements Analysis, Business Process Improvement, Operations Management
Program Management: Jira, SAP PLM, Confluence, Trello, Microsoft Project, Agile, Scrum

EXPERIENCE

Tesla, *Material Planner – Service and Energy* — Jan 2023 – Present
- Created and deployed supply requirements to the supply base via **MRP** to meet demand for production, aftermarket and engineering needs globally while meeting **inventory** and **cost objectives** across the Tesla Energy – Service Value stream
- Utilized supply chain expertise and **analytics** to track system parameters to meet **target inventory** and **service levels** while **minimizing costs** and **stockout** occurrences
- Engaged with the new product introduction, demand planning, material planning and GSM departments to maintain **master data** to accurately reflect **supply chain capabilities** and **plan** supply

Sam's Club (Walmart), *Supply Chain Analyst Intern* — May 2022 – Aug 2022
- Identified and led process improvement initiatives by extracting carrier data using **SQL**, analyzed cycle time breakdown with **Python** and **Tableau** to **reduce late delivery of LTL freight by 23%** which **improved member NPS scores by 12%**
- Developed and implemented omni-transportation strategic initiatives directed at improving the speed, capacity, sustainability, cost, and overall membership experience while delivering new transportation-related solutions and capabilities
- Established an interconnected end-to-end supply chain ecosystem by unifying process, people and technology across merchandising, replenishment, finance, marketing, fulfillment, and transportation departments

DJS Racing, *Manufacturing Head & Cost Lead* — Apr 2018 – May 2021
- Devised a **5-year** plan to mass manufacture the prototype vehicle that involved selecting suitable methods for forecasting **product demand** and **inventory management**, finalizing **plant location**, and evaluating the layout of the manufacturing plant
- Developed a **financial structure**, drafted a **master production schedule** and 'Bill of Materials' (**BOM**) and performed a **cost analysis** of all the parts on the car; increased customer acquisition by **16%** and decreased cost per acquisition by **11%**

RELEVANT PROJECTS

Inventory Allocation Decision-Making System using Fuzzy Logic Implementation (Python) — Apr 2022 – May 2022
- Created a **decision-making algorithm** for inventory allocation in case of an inventory stockout based on a set of priority rules
- Determined a matrix of **81** priority index rules accounting for basic economic parameters and desired service levels
- Contrasted the proposed model with the even-share and fair-share inventory allocation models and **achieved a cost reduction of 51.79% and 38.67%** respectively

Demand and Resource Requirements Modeling and Planning (Tableau, Power BI) — Jan 2022 – Mar 2022
- Proposed two different market deployment plans for the US over a **10-year** term - one based on the market share in metropolitan areas and the other using **K-means clustering** algorithm
- Determined ideal number of ports, fulfillment centers, distribution centers and production facilities required to cater to the formulated demand with **network design** and roadmap, resulting in **18% reduction in the delivery time** for orders
- Formulated **production strategy**, expected **production plan** for each factory for each product type and estimated the inbound flow of components to each factory that led to a **13% increase in productivity**