Kumar Abhinav

Supply Chain Analyst

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| **Core Technologies & Skills**  Supply Chain Data Analytics  Inventory & Vendor Management  Supply Planning, JDA  Demand Planning  SQL, Tableau  Python, Java  Elasticsearch, Kibana  Gen AI & ML  ERP Systems /SAP  Advanced Excel | Supply Chain Optimization Manager with 13+ years of experience driving multi‑year, multi‑echelon network topology planning and continuous improvement across emerging country markets. Expert in developing optimization models, scenario analysis, and end‑to‑end ETL pipelines (Redshift, Python, SQL). Adept at data mining, building executive dashboards (Quick Sight, Tableau), and partnering with regional operations and finance to implement cost‑efficient, data‑driven solutions.  **Career Highlights**   * **AI & Automation Mastery (LinkedIn):** Engineered AI-powered APIs using Python/FastAPI to automate IT ticket resolution via ServiceNow-JIRA integration, migrated a fragmented Java chatbot backend to a unified Python architecture, and orchestrated fault-tolerant workflows with Temporal—cutting resolution times by up to 45% and slashing operational overhead. * **Cutting-Edge Analytics & Cost Optimization (RFXCEL):** Spearheaded the launch of a next-gen supply chain dashboard for the Kingdom of Bahrain, leveraging a secure SQL-to-Elasticsearch pipeline to reduce data latency by 50% and boost efficiency by 25%. Deployed predictive models that enhanced supplier performance by 30% while streamlining operations and driving a 15% reduction in expenses. * **Global Supply Chain Transformation (VVF India Limited):** Revolutionized inventory management and production processes through data-driven analytics and automation, cutting global inventory by 25% and manufacturing losses by 22%, |

**Work Experience**

**LinkedIn** | **Business Analyst & Software Engineer (Contractor)**, Mountain View, CA. October 2024 to Present

In this role, I develop and deploy AI-driven automation solutions using Python and FastAPI to enhance internal operations. By modernizing legacy systems, integrating data sources, and improving process efficiency, I reduce manual intervention and improve system resilience, all of which contribute to a more streamlined and scalable infrastructure.

**Specific projects:**

* **Process Mapping & Automation:** Integrated ServiceNow and JIRA to build an AI-driven automation solution that analyzes IT tickets, mines internal knowledge bases for solutions, and auto-closes confirmed ticket improving MTTR by ~40-45%, lowering operational costs by 30 -35 %.
* **Backend Migration of Internal Chatbot:** Led the complete migration of internal chatbot backend layer from Java to Python, consolidating multiple fragmented codebases into a single, streamlined architecture. This transition improved operational efficiency by 35-40% and resulted in significant cost savings $ X K by reducing the need for additional engineering resources and enabled the decommissioning of three Java-based VMs, reducing infrastructure overhead
* **Chatbot Package Optimization & Build Time Reduction:** Refactored the Grogu internal chatbot backend by removing 45% redundant dependencies, reducing package size by 45%, which accelerated build times, lowered infrastructure costs, and eased engineering workload.
* Designed and implemented end‑to‑end ETL pipelines using Redshift and Python to automate data acquisition, normalization, and transformation; developed QuickSight dashboards to enable weekly and monthly network optimization reviews.

**RFXCEL** | **Tech lead - Supply Chain Analyst,** San Ramon, CA May 2023 – Dec 2024

After leaving VVF India Limited to pursue an MS in Business Analytics, I onboarded them as a summer intern & quickly rose to Tech lead. My contributions during the internship led to a full-time offer, and in this role, I leveraged data-driven technologies, real-time supply chain analytics, and automation to optimize supply chain processes, enhance decision-making, and improve operational efficiency.

**Specific projects:**

* **Supply Chain Analytics & Implementation:** Led a network capacity optimization program by designing and deploying a cross-functional capacity planning dashboard for the Kingdom of Bahrain’s (the new emerging market) distribution network. Architected a secure SQL-to-Elasticsearch pipeline to centralize capacity and throughput data, reducing data retrieval latency by 50% and improving network flow efficiency by 25%. Coordinated stakeholders across Operations, Finance, and Product teams to implement lean processes and change management for sustainable adoption.
* **Cross-Functional Collaboration & Real-Time Analytics:** Developed logistics optimization metrics and JDA-based real-time analytics dashboards to monitor distribution network performance, enabling dynamic balancing of supply and demand. Collaborated with Sales, Marketing, and Finance stakeholders to adjust capacity plans in real time, reducing stockouts by 30% and improving distribution center utilization by 20%.
* **Operational Cost Analysis & Efficiency Gains:** Identified network capacity constraints through end-to-end operational analysis and defined key capacity metrics (throughput, fill rate, inventory turnover). Partnered with Engineering and Procurement to optimize transportation routes and warehouse layouts, reducing logistical costs by 15% and increasing throughput capacity by 18%.
* **Advanced Supply Chain Analytics:** Led advanced supply chain analytics initiatives using Python, SQL, Tableau, and Generative AI LLMs to develop predictive and prescriptive supplier scorecards. Delivered actionable insights to key clients (e.g., Cardinal, Walgreens), improving supplier performance by 30% and reducing internal workload by 40%. Provided data-driven recommendations that streamlined supplier file processing and enhanced decision-making.
* **Public API Development for SAP Integration:** Designed, developed, and implemented a Java-based public API for AbbVie’s Luprolink platform to automate data processing between their SAP system and the platform. This solution eliminated manual order creation and enabled real-time data synchronization, accelerating order processing by 30%, enhancing supply chain responsiveness, and significantly improving fulfillment efficiency.

**Vvf India Limited** | **Manager** **Supply Chain Data Analyst**, Mumbai, India. Dec 2017 to Aug 2022

As the Manager Supply Chain led several key projects that optimized the supply chain process, improved manufacturing efficiency, and successfully passed internal audits by McKinsey. Achieved global inventory reduction and led the SAP GST Implementation roll-out team.

**Specific projects:**

* **Optimized Replenishment Processes:** Utilized JDA’s replenishment planning tools to determine optimal order quantities and maintain appropriate safety stock levels, resulting in a 15% reduction in inventory holding costs while ensuring timely product availability.
* **Global Inventory Reduction:** Developed and implemented a strategic inventory segmentation framework using quantitative analysis and common supply chain heuristics such as Just-In-Time (JIT) and Vendor Managed Inventory (VMI). This initiative optimized stock levels and resulted in $X million in savings and a 25% overall reduction in global inventory.
* **Manufacturing Cost Analysis:** Engineered custom Python scripts leveraging predictive analytics, regression models, and supply chain heuristics (lean principles, cost-to-serve analysis) to identify and mitigate manufacturing inefficiencies. Achieved a 22% reduction in manufacturing losses, generating $X million in annual savings.
* **Forecasting & Demand Planning:** Orchestrated cross-functional S&OP processes with Sales, Operations, and Finance to align capacity plans with demand forecasts. Leveraged Advanced Excel (VLOOKUPs, pivot tables) and forecast models to increase forecast accuracy by 20%, reduce stockouts by 25%, and maintain network fill rates above 95%.
* **End to End Capacity Management:** Developed an end-to-end capacity management dashboard in Excel and Tableau, tracking weekly fill rate, throughput, and utilization metrics. Enabled leadership to identify bottlenecks and implement corrective actions, improving network throughput by 12%.
* **ETL Framework:** Developed and maintained ETL frameworks and used SAS/R to perform statistical analysis on historical flow data, identifying topology improvements that reduced lead‑time variability by 15% across multi-echelon networks.

**India Power Limited** | **Deputy Manager - Supply Chain Operations,** Kolkata, India Mar 2016 to Nov 2017

**Specific projects:**

* Oversaw procurement and material flow for high-pressure pipeline projects, coordinating bill of materials and MRP updates.
* Optimized weekly supply schedules and inventory reconciliation, reducing idle time by 15%.
* Coordinated vendor performance with engineering and finance to control material availability and budget forecasting.

**Bajaj Energy Limited | Deputy Manager - Supply Chain Operations,** Noida, India Feb 2013 to Mar 2016

**Specific projects:**

* Managed logistics and sourcing for RO-MB plants and cooling tower construction across 3 remote sites.
* Executed full project closeouts, from fund allocation to inventory reconciliation and billing audits.
* Reduced delivery lead times by 20% via improved freight and supplier coordination.

**Abhijeet Projects Limited | Asst. Manager - Supply Chain Operations,** Ranchi, IndiaSept 2010 to Jan 2013

**Specific projects:**

* Developed L1–L3 schedules and WBS tracking for multi-year energy infrastructure supply projects.
* Acted as liaison to India’s Central Electricity Authority for contract compliance and project approvals.
* Maintained detailed supply dispatch schedules and insurance coordination with vendors.

**Airox Nigen** | **Business Development Manager**, Gurgaon, India April 2009 to Sept 2010

**Skills**

**Functional:** Data Analysis, Dash Boarding, Data Optimization, Process Mapping, Process Optimization, Delivery Presentation, Procurement & Sourcing, Logistics & Distribution Management, Process Improvement

**Technical:** FastAPI, Java, SAP, Python, Agentic AI, MySQL, Kibana, Tableau, AWS, Elasticsearch, JDA, MS Excel, Azure, Git, Agile, SDLC

**Education and Academic Background**

**California State University East Bay**, Hayward, CA

**M.S. in Business Analytics**, Aug 2022 to Dec 2023

**Sathyabama Deemed University** Chennai, India

**B.Tech. - Chemical Engineering (Major)**, Aug 2005 - April 2009 || **Computer Science & Engineering, (Elective)** Aug 2006–April 2009