

Liyang Ng

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SUMMARY OF QUALIFICATIONS

Supply Chain Strategy | Machine Learning | Predictive Analytics | Business Intelligence

Results-driven Data Analyst with 4+ years of experience in demand planning, statistical modeling, and business intelligence. Expertise in developing predictive models, automating analytics workflows, and deriving data-driven business insights. Passionate about leveraging AI, optimization, and demand planning to drive supply chain innovation and efficiency. Strong communicator with a proven track record of collaborating across cross-functional teams to execute high-impact manufacturing solutions.

- **IBF Certified Professional Demand Planner** with expertise in forecasting and ML-based prediction models
- **Expert in Python, SQL, R, Power BI, and Tableau** for data analysis & visualization
- **Developed 20+ automated dashboards**, enhancing data accessibility and improving decision-making
- **Finalist in Elevator Pitch competition** with strong presentation and communication skills tailored for executive leadership

TECHNICAL SKILLS

Programming: Python (Pandas, NumPy, Scikit-learn), R, SQL

Machine Learning: Time-series forecasting, regression analysis, predictive modeling, optimization

Data Visualization: Power BI (Advanced), Tableau, Matplotlib, Seaborn

Big Data & Cloud: Microsoft AX, Microsoft D365, Spark (basic), Databricks

Tools & Technologies: Excel (Advanced), Jupyter Notebook, TensorFlow (basic), Visio, Kaggle, RStudio

WORK EXPERIENCE

Signode Industrial Group

Tampa, FL

Sr. Supply Chain Analyst

November 2024 - Present

- Collaborate with senior leadership to spearhead planning strategies, driving sales volume to consistently meet and exceed annual targets
- Utilize historical data and key trends to generate forecasts, contributing to the development of accurate and data-driven annual budgets
- Reduced inventory DIO by 80%, from \$59M (FY23) to \$12M (FY24) through consignment/3PL consolidations and other SIOP initiatives
- Championed demand forecasting initiatives using RStudio and Microsoft Power BI software, resulting in 30% reduction in stockouts and 20% improvement in forecast accuracy for key distributor and direct retail partners
- Managed 5 cross-functional teams in product line simplification and conversion projects, leading to 23% increase in OTIF
- Established a refined internal CPFR system to continuously analyze and validate regression models, resulting in enhanced demand planning strategies within just three months of joining the team

Sales and Operations Planning Analyst

February 2022 - November 2024

- Created forecasting models using Python & R that enhanced sales strategies, improved supply chain efficiency, and supported executive decision-making
- Optimizing inventory levels of high-dollar products through ABC-XYZ classifications, reducing excess stock by 15%
- Leveraged Microsoft Power BI and SQL to analyze 3,000+ customer locations and enhance revenue forecasting for a \$136M ARR business
- Implemented correlation tests and regression analysis with Python and R to identify key business drivers, increasing forecasting accuracy
- Designed an automated CPFR system, leading to 23% improvement in OTIF through real-time demand sensing
- Spearheaded an AI-driven project that improved resource allocation planning for high-demand products

Council of Supply Chain Management Professionals (South Florida Chapter)

St. Petersburg, FL

President (Data & Analytics Initiative)

April 2021 - December 2021

- Led data-driven mentorship matching, increasing internship placements by 25% through student preference data and demographics
- Built predictive models to forecast student engagement, leading to a 49% increase in participation within students and faculty
- Spearheaded data-driven partnerships, strategically expanding industry collaborations from 6 to 13 partners, enhancing market reach and fostering long-term growth

EDUCATION

University of South Florida, Magna Cum Laude

Tampa, FL

Bachelor of Science, Business Marketing and Supply Chain Strategy

University of the Cumberlands

Williamsburg, KY

Master of Science, Data Science and Analytics