

Sunil Kurumala

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PROFESSIONAL SUMMARY

Senior Data Analyst with **6+ years of experience** driving data analytics, reporting, and automation across large-scale supply chain and operational environments. Expertise in **SQL, Python, Power BI, Snowflake, and cloud data platforms** with a strong background in data modeling, ETL pipeline development, KPI reporting, and analytics.

Proven ability to translate complex datasets into **actionable insights for leadership**, support business continuity during high-impact incidents, and improve operational efficiency through automation and predictive analytics. Strong cross-functional collaborator experienced in working with engineering, IT, procurement, operations, and executive stakeholders in fast-paced environments.

PROFESSIONAL EXPERIENCE

Senior Supply Chain Data Analyst Department of Healthcare and Family Services Feb 2024 – Present | USA

- Act as a **lead data analytics partner** supporting **\$450M+ procure-to-pay operations**, delivering accurate and timely insights to senior leadership and operational teams.
- Design, develop, and maintain **enterprise Power BI dashboards** serving as a control tower for OTIF, lead-time variance, supplier delays, fulfillment risks, and inventory exposure.
- Perform **deep-dive analytical investigations** during operational disruptions, identifying root causes using MRP, BOM, supplier, and transactional datasets.
- Build and automate **Snowflake-based ETL pipelines** to ingest data from ERP, inventory, and procurement systems, improving reporting latency and data reliability.
- Develop **Python-driven analytics solutions**, including NLP sentiment analysis on supplier and stakeholder communications, to prioritize risks and escalation paths.
- Partner with cross-functional teams (IT, procurement, vendor management, operations) to ensure **data integrity, consistency, and governance**.
- Conduct **post-incident reviews (PIRs)** by analyzing performance metrics, operational gaps, and recovery timelines to support continuous improvement initiatives.
- Provide **executive-ready reporting**, translating complex datasets into clear insights and recommendations.

Supply Chain Data Analyst - Western Digital

May 2021 – July 2022 | India

- Supported **live production, logistics, and supply chain operations** by delivering real-time analytics during high-severity supply disruptions.
- Designed and deployed **interactive dashboards** tracking WIP, finished goods, supplier delivery performance, takt time, and throughput.
- Wrote complex **SQL queries** and Python scripts to analyze large datasets, uncovering bottlenecks and fulfillment risks.
- Built **anomaly detection models** to identify early warning signals for inventory shortages and supplier delays.
- Conducted **cost-to-serve, logistics mode-shift, and scenario analysis** to support data-driven decision-making during supply constraints.
- Collaborated with procurement, planning, and manufacturing teams to align analytical insights with operational execution.

Associate Supply Chain Analyst Western Digital

Jun 2018 – Apr 2021 | India

- Monitored **MRP health, purchase order exceptions, OTIF gaps, and fulfillment risks** using automated SQL-based reports.
- Built operational dashboards enabling leadership to quickly understand **incident scope, impacted SKUs, and recovery progress**.
- Automated daily and weekly reports for DOS, fill rate, backorders, and inventory aging using SQL and Excel.
- Supported **AWS and Snowflake data migration initiatives**, improving scalability and performance of reporting systems.
- Performed **trend analysis and root-cause investigations** to support corrective action and process improvement.
- Contributed to retrospective reviews by documenting data insights and performance improvements.

CORE SKILLS

1. Data Analytics & Reporting

Data Cleaning, Data Validation, Data Modeling, Root Cause Analysis (RCA), Trend & Variance Analysis, KPI Development, Executive & Ad-hoc Reporting

2. Business Intelligence & Visualization

Power BI (DAX, Data Modeling, Performance Optimization), Tableau (LOD Expressions), Looker Studio, Excel (Power Query, PowerPivot, Advanced Formulas)

3. Programming & Querying

SQL (MySQL, PostgreSQL, T-SQL, CTEs, Window Functions), Python (Pandas, NumPy, Prophet, Matplotlib), Bash Scripting, R (Basic)

4. Data Engineering & Cloud Platforms

Snowflake, Databricks, Azure Synapse, BigQuery, AWS (S3, RDS, Lambda), Airflow, Automated ETL &

5. Advanced Analytics, AI & Enterprise Tools

Time Series Forecasting, Anomaly Detection, Predictive Analytics, NLP & Sentiment Analysis, Scenario Modeling, SAP (MM/PP), Oracle, NetSuite, Jira, Confluence, Git, Agile & Scrum

TECHNICAL SKILLS

- Languages:** SQL, Python, R
- BI Tools:** Power BI, Tableau, Looker
- Databases:** Snowflake, SQL Server, MySQL, PostgreSQL, Redshift
- Cloud Platforms:** AWS, Azure
- Analytics:** Forecasting, Predictive Modeling, NLP
- Tools:** Jira, Confluence, Git, SAP, Oracle, NetSuite

EDUCATION

Master of Science (M.S.) – Computer Science

University of Illinois, Springfield, IL | Aug 2022 – Dec 2023

Bachelor of Engineering (B.E.) – Information Technology

Vemana Institute of Technology, Bengaluru, India | Aug 2014 – Jun 2018