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SUMMARY

Inventory and Supply Chain Analytics professional with experience analyzing materials consumption, excess inventory exposure, and cost drivers using SQL, Excel, Snowflake, and Tableau. Built automated reporting solutions and KPI dashboards that improved inventory visibility and supported working capital optimization in manufacturing-focused environments.

PROFESSIONAL EXPERIENCE

Data Science Intern, BLR,India Aug 2024 – Dec 2024
IPCS GLOBAL

- Analyzed global inventory and 50k materials datasets using SQL and Snowflake to improve inventory efficiency, enhance working capital visibility, and support cross-functional decision-making across Business Units.
- Translated purchasing and consumption requirements into structured datasets, enabling automated materials reporting that reduced manual reporting effort by 30%.

Business Analyst Intern,Mys,India May 2024 – Aug 2024
Cyberverse Foundations

- Evaluated purchasing, materials usage, and operational data using SQL and Excel to identify excess inventory risks, inefficiencies, and cost drivers, supporting working capital optimization initiatives.
- Defined and monitored inventory performance KPIs by translating business requirements into structured reporting frameworks aligned with financial and operational goals.

PROJECT EXPERIENCE

Utilization and Cost Impact Analysis on Manufacturing Margins **Feb 2026**
https://github.com/Madhulikaaa/manufacturing-margin-utilization-dashboard

- Built a Tableau dashboard analyzing plant utilization, fixed costs, and materials impact on gross margin to identify inventory-driven profitability gaps.
- Quantified under-utilization and excess materials exposure, delivering executive-ready insights to improve revenue realization and reduce working capital pressure.

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Business Reporting & Analytics Pipeline (AWS–Snowflake) **Dec 2025**
https://github.com/Madhulikaaa/inventory-risk-analytics-snowflake-tableau

- Developed Snowflake SQL models transforming raw purchasing and inventory data into plant-level KPIs supporting procurement and forecasting decisions.
- Created Tableau dashboards publishing aged inventory alerts, stock coverage trends, and excess materials indicators to minimize inventory risk.
- Enabled proactive identification of overstock scenarios, improving inventory turnover visibility and supporting working capital optimization.

Data Quality & Reliability Framework **Dec 2025**
https://github.com/Madhulikaaa/inventory-risk-analysis

- Cleaned inventory data using Excel Power Query and analyzed it in Snowflake to flag high-value risk items.
- Delivered a simple dashboard showing where working capital was most concentrated.

SKILLS

Technical Skills: Python, SQL, PySpark
Data Engineering & ETL: Databricks, AWS S3, AWS Glue (PySpark), Snowflake, dbt, Apache Airflow
Data Processing Concepts: Batch Processing, ETL/ELT Pipelines, Incremental Loads (CDC), Data Quality Validation
Analytics & Reporting Tools: Excel (pivot tables, lookups, trend and variance analysis), Tableau
Professional Skills: Cross-functional collaboration, stakeholder communication, technical documentation

EDUCATION

W. P. Carey School of Business at Arizona State University,Tempe,AZ Jan 2025 – May 2026
Masters in Business Analytics (Supply Chain concentration) - 3.73/4.0

Vidyavardhaka College of Engineering Aug 2020 – July 2024
Bachelor of Engineering , Computer Science, Kar, India - 3.5/4.0