Faysal Aziz

AI-Enhanced Supply Chain Management with Snowflake

Connect the data. Predict the demand. Strengthen the supply chain.

FA-0087 · 2 Days

AI for Leaders & Business

Introduction

Duration: 2 Days
Industry Focus: Supply Chain and Logistics

Supply chain decisions are often made across disconnected systems containing purchasing records, supplier information, inventory balances, warehouse activity, customer demand, transportation events, and delivery performance. When this information remains fragmented, organizations struggle to recognize shortages, demand changes, supplier delays, and logistics problems early enough to respond effectively. AI-enhanced supply chain management addresses this challenge by transforming operational data into forecasts, alerts, and decision-ready insights.

This two-day course introduces the practical use of AI and data analytics across demand forecasting, inventory management, supplier performance, and logistics optimization. Participants will examine how Snowflake can provide a connected data foundation for integrating supply chain information and supporting near-real-time analysis. The course also covers Snowflake ML capabilities for time-series forecasting and anomaly detection, including the preparation of imperfect operational data and the monitoring of deployed models.

The emphasis will remain on realistic business requirements rather than abstract theory. The instructor has over 30 years of industry experience and will deliver content shaped by current industry demand, operational priorities, and implementation realities instead of presenting the subject as a purely academic discipline. The scope is intentionally focused so that the essential concepts can be covered meaningfully within two days.

Learning outcomes

Participants will be able to:

- Identify valuable AI applications across the supply chain
- Understand supply chain data integration using Snowflake
- Apply demand forecasting and anomaly detection concepts
- Evaluate inventory, supplier, and logistics performance insights
- Plan a practical AI-enabled supply chain analytics initiative

Prerequisites

- Basic understanding of supply chain or logistics operations
- General familiarity with business data and reporting
- Prior Snowflake or machine learning experience is helpful but not required

Training outline

1. AI-Enhanced Supply Chain Fundamentals

1. Supply chain visibility and decision intelligence
2. AI and machine learning use cases
3. Supply chain performance indicators
4. Data-driven operational decision-making

2. Supply Chain Data Integration with Snowflake

1. Procurement, supplier, inventory, warehouse, and transportation data
2. Data ingestion and consolidation
3. Data quality and standardization
4. Near-real-time data processing
5. Security, governance, and controlled data sharing

3. Demand Forecasting and Predictive Analytics

1. Historical demand data preparation
2. Time-series forecasting concepts
3. Seasonality and demand variability

4. Forecast accuracy measurement
5. Snowflake ML forecasting
6. Forecast monitoring and refinement

4. Inventory and Logistics Optimization

1. Inventory availability and replenishment insights
2. Stockout and excess inventory risks
3. Supplier performance analysis
4. Transportation and delivery performance
5. Logistics cost and service-level analysis
6. Supply chain anomaly detection

5. Operationalizing AI-Driven Insights

1. Supply chain dashboards and alerts
2. Exception-based management
3. Snowflake Cortex and natural-language analytics
4. Model monitoring and observability
5. Responsible AI and human oversight
6. Implementation priorities and adoption roadmap

Disclaimer

This outline is provided as a general instructional framework and does not constitute a fixed or binding delivery schedule. The trainer reserves the right to amend, reorganize, substitute, expand, or omit course content, without prior notice, when reasonably necessary to address participant requirements, available instructional time, technical conditions, platform changes, or evolving industry priorities.

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