

# **Data Driven Decision In Supply Chain Management**

## **Duration – 16 Hours**

### **Program Description**

This program equips supply chain and logistics professionals to make smarter, faster decisions by harnessing data, analytics, and Generative Al. Participants learn how to move from **descriptive** (what happened) to **diagnostic** (why it happened) to **predictive** (what will happen) analytics—and then combine these insights with **GenAl** for scenario exploration, decision support, and collaborative problem-solving. The course blends domain context (procurement, inventory, warehousing, transportation, distribution) with practical tooling, dashboards, and governance so learners can design repeatable, data-driven decision workflows end to end.

### **Learning Goals**

- Explain the role of data in logistics & supply chain decision cycles.
- Apply descriptive analytics to build visibility and KPI monitoring.
- Use diagnostic analytics for root-cause analysis and performance improvement.
- · Build predictive analytics for demand, inventory, and risk forecasting.
- · Employ Generative AI for scenario planning, recommendations, and decision support.
- Practice prompt engineering to elicit accurate, auditable outputs from LLMs.
- Integrate analytics outputs with GenAI workflows, dashboards, and planning tools.
- Design data pipelines and governance (quality, privacy, ethics) for reliable decisions.
- Communicate insights with clear visualizations and action-oriented narratives.
- Apply methods to real use cases through a capstone project.

#### **High-Level Course Topics**

- · Introduction to Data-Driven Decision Making in Logistics & SCM
- Supply Chain Data Landscape, Quality & Governance
- Descriptive Analytics for Supply Chain Visibility
- Diagnostic Analytics for Bottlenecks & Root-Cause Analysis
- Predictive Analytics for Forecasting & Risk
- (Optional) Prescriptive Analytics & Optimization Concepts
- Generative AI in Supply Chain Decision Making
- Prompt Engineering for Decision Support
- Integrating Analytics with GenAI (LLMs + BI/Planning/Apps)
- Dashboards & Data Visualization for Executives & Operators
- Use Cases: Procurement, Inventory, Warehousing, Transportation, Distribution
- Risk, Resilience & Scenario Analysis
- Responsible & Ethical AI in Supply Chains
- Capstone Project: End-to-End Data-Driven Decision Workflow