AI SUPPLY CHAIN MANAGEMENT

Here's an enhanced **problem statement** with additional points for clarity and depth:

Businesses face increasing challenges in managing supply chain disruptions and maintaining optimal inventory levels due to global uncertainties such as geopolitical tensions, natural disasters, and fluctuating market demands. Traditional supply chain systems lack the agility to proactively predict risks, leading to inefficiencies, operational delays, and financial losses.

This project aims to develop an AI-driven system that revolutionizes supply chain management by:

1. **Monitoring** global data sources, including news, supplier performance, and transportation updates, to detect potential risks and emerging trends.
2. **Predicting** disruptions using advanced machine learning and natural language processing (NLP) models, providing actionable insights and risk probabilities.
3. **Optimizing** inventory levels dynamically based on predicted risks, ensuring stock availability while minimizing excess inventory costs.
4. **Integrating** seamlessly with ERP systems for automated stock adjustments, reordering recommendations, and enhanced decision-making.
5. **Delivering** real-time alerts and detailed reports via Slack, Email, and dashboards, ensuring stakeholders are informed and prepared.

By addressing these challenges, the system will enable businesses to proactively manage supply chain risks, enhance operational efficiency, reduce losses, and maintain continuity in a volatile global environment.