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(71)**Name of Applicant :**
1)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY
Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. Uttar Pradesh India
(72)**Name of Inventor :**
1)RUPENDRA KUMAR KAUSHIK
2)Dr. KUMUD SAXENA

(57) Abstract :
The invention discloses an AI-powered predictive analytics system for supply chain management comprising data sources (101), an AI engine (102), a predictive model layer (103), a decision-support interface (104), and output channels (105). The system integrates heterogeneous datasets, employs advanced machine learning algorithms, and delivers real-time predictive insights. It optimizes demand forecasting, inventory control, logistics operations, and risk management. The invention ensures accuracy, resilience, and scalability in global supply chains, thereby enhancing efficiency, minimizing disruptions, and improving overall performance.

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