

Smart Inventory Solutions: Leveraging AI in Stationery Retail Management

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Abstract: A retail stationery business received an artificial intelligence (AI)-based stock management system as the central research topic. This study aimed to develop inspiration from the hospitality and food service sectors since these industries already implement AI systems to manage stock and forecast sales and boost operational improvement through real-time inventory analytics and automatic predictive forecasting. Through the new AI-powered solution users could easily understand a dashboard that provided essential information about inventory valuation and category performance and customer interactions and revenue trends for data-based decision-making. The system allowed users to integrate features such as handling purchase and orders along with customer details, and employee administration and retail management under one roof. AI-driven predictive algorithms enhanced the inventory management by fixing market needs and minimizing forecasting errors. The new AI stock management system achieved user satisfaction at a high level because users found it easy to understand as it helped in decision-making. This study provided additional insights about AI-supported retail management and generates firsthand information regarding both operational achievements and AI system deployment. The study revealed better corporate profitability combined with operational efficiency gains although more research would be needed to confirm this data as usable throughout diverse retail contexts.

Keywords: Inventory management, strategic decision-making, Inventory Analytics, Forecasting

