

Langchain-Powered AI Assistant for Retail Inventory Control

Mr. S. S. Saravana Kumar¹, Dr. C. Daniel Nesa Kumar², Dr. R. Shobana³,
Mr. N. Dharmarajan⁴, Mr. G. visveswaran⁵

^{1,2,3} Assistant Professor, Department of Computer Applications

⁴ Assistant Professor, Department of Computer Applications

⁵ UG Student, Department of Computer Applications

Sri Ramakrishna College of Arts & Science, Coimbatore^{1,2,3,5}

RVS College of Arts and Science, Coimbatore⁴

Abstract: *Managing retail inventory has never been smarter! Smart Stock AI, powered by Lang Chain, transforms traditional inventory management into a seamless, AI-driven experience. This intelligent chatbot integrates with existing systems, providing real-time stock updates, demand forecasting, and automated restocking suggestions. By leveraging natural language processing (NLP), it enables store managers and staff to inquire about stock levels, supplier details, and sales trends effortlessly. With predictive analytics, it minimizes stock outs and overstocking, optimizing operational efficiency. Smart Stock AI also enhances customer experience by offering instant product availability insights. Its intuitive interface and multilingual support make it accessible across diverse retail environments. Scalable and adaptable, it grows with business needs, ensuring future-ready inventory control. Say goodbye to manual tracking—embrace AI-powered inventory management today.*

Keywords: Inventory Chatbot, Retail AI, Lang Chain, Stock Management, Real-time Inventory, Demand Forecasting, Automated Restocking, Natural Language Processing (NLP), Predictive Analytics, AI-powered Retail, Inventory Optimization, Smart Stock AI, Retail Automation, Supply Chain Efficiency, Chatbot for Retail

