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Inventory Analyzer System

Ms. Smita Ramteke¹, Dr. Lowlesh Nandkishor Yadav², Prof. Jayant Adhikari³

U.G. Student, Department of Computer Science and Engineering¹ Associate Professor, Department of Computer Science and Engineering² Assistant Professor, Department of Computer Science and Engineering³ Tulsiramji Gaikwad-Patil Institute of Engineering & Technology, Mohgaon, Nagpur, Maharashtra, India sramteke0422@gmail.com, lowlesh.yadav@gmail.com, jayant.cse@tgpcet.com

Abstract: Optimal inventory management is important for companies in order to keep costs down while still satisfying customers' needs. This paper introduces the Inventory Analyzer, a data analytic system that uses statistical methods and machine learning to maximize inventory levels.

The system combines demand forecasting, ABC analysis, and real time monitoring to eliminate overstocking, avoid stock outs, and enhance supply chain effectiveness. Experimental findings indicate a 20% decrease in overstocking and a 15% enhancement in stock availability when compared to conventional practices. The research identifies the contribution of predictive analytics in contemporary inventory management

Keywords: Inventory Management, Demand Forecasting, Analysis, Machine Learning, Optimization etc





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