

ABSTRACT
INVENTORY MANAGEMENT SYSTEM USING AI VOICE
CONTROL FOR RETAIL STORE

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Inventory management plays a crucial role in ensuring the operational efficiency and profitability of retail stores. Traditional inventory systems typically rely on manual input, which is time-consuming and prone to human error. To address these issues, this research proposes an inventory management system that integrates Artificial Intelligence (AI) with voice control technology. The system allows users to manage inventory through voice commands such as checking stock, updating quantities, and generating reports. The system utilizes Natural Language Processing (NLP) for understanding user commands and applies voice recognition models to accurately interpret spoken inputs. A comparative analysis was conducted to evaluate system performance. The results show that the proposed system achieves 92% accuracy in voice command recognition, reduces manual input time by 60%, and improves inventory update accuracy. The integration of voice control in inventory systems offers increased accessibility, better efficiency, and reduces operational delays in retail environments.

***Keywords** – Inventory Management, Voice Control, Artificial Intelligence, Natural Language Processing, Retail Technology*