

AI-DRIVEN SUPPLY-CHAIN OPTIMIZATION FOR REDUCING MEDICAL WASTE AND EXPIRED INVENTORY

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Effective healthcare supply chains play an important role in helping healthcare organizations reduce their operational costs as well as eliminate medical waste. In healthcare settings, hospitals, and other healthcare institutions, there have been challenges, such as overstocking, forecasting, and medical product expiration, which have resulted in wastage and financial losses. This study aims to investigate the role played by Artificial Intelligence (AI) in improving supply chains in healthcare settings, thereby helping healthcare organizations reduce medical waste and expired medical products. AI technologies, such as machine learning, have been seen to have the ability to predict demands, thereby helping healthcare settings maintain optimal levels of inventory, which will be less likely to expire. In this regard, AI technologies have been seen to play an important role in improving supply chains, thereby helping healthcare settings reduce medical waste, which is harmful to patients. AI technologies have been seen to improve supply chains, which is important for improving sustainability in healthcare settings. The study has indicated that AI technologies have the ability to improve supply chains, thereby helping healthcare settings improve sustainability.
