Pharmacy Innovation: A Comprehensive Overview of AI Integration

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Abstract: *An answer to issues with numbers and data is artificial intelligence (AI). Numerous technological developments in almost every industry, including engineering, architecture, education, accounting, business, health, and more, have resulted from this discovery. AI has advanced significantly in the healthcare industry, having played important roles in the management and storage of data and information, including patient medical histories, medication inventories, sale records, and so forth; automated equipment and software and computer applications, including diagnostic tools like CT and MRI radiation technology and many more, have all been developed to support and streamline healthcare procedures. AI has unquestionably transformed healthcare, making it more effective and efficient, and the pharmaceutical industry is not an exception.In recent years, there has been a noticeable surge in interest in the application of AI technology for the analysis and interpretation of several significant pharmacy domains, such as drug development, dosage form design, polypharmacology, and hospital pharmacy. Given the increasing significance of AI, we sought to produce a thorough report that would aid all practicing pharmacists in understanding the most significant advancements made possible by the use of this subject.*

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