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Influence of Artificial Intelligence Enablement in Digital Healthcare Services

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ABSTRACT

Artificial Intelligence (AI) has significantly influenced the development and effectiveness of digital healthcare services in recent years. With the integration of AI technologies such as machine learning, deep learning, and natural language processing, healthcare systems are becoming more efficient, accurate, and patient-centered. AI enables healthcare providers to analyze large volumes of medical data quickly and accurately, which helps in early disease detection, diagnosis, and treatment planning. For example, AI-powered diagnostic tools can analyze medical images such as X-rays, CT scans, and MRIs to identify abnormalities with high precision, supporting doctors in making better clinical decisions. AI also plays an important role in improving digital healthcare services such as telemedicine, remote patient monitoring, and electronic health record management. AI-driven chatbots and virtual health assistants help patients receive medical guidance, schedule appointments, and access healthcare information without visiting hospitals. In addition, AI-based predictive analytics allows healthcare professionals to anticipate disease outbreaks, identify high-risk patients, and provide preventive care. Furthermore, AI improves the efficiency of healthcare administration by automating routine tasks such as data entry, billing, and medical documentation, which saves time and reduces human errors. However, the successful implementation of AI in digital healthcare requires proper infrastructure, data security measures, and trained professionals.