

# REVOLUTIONIZING HEALTHCARE: THE POWER AND POTENTIAL OF AI ENABLEMENT

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### ABSTRACT

The field of healthcare is undergoing a rapid transition due to the emergence of artificial intelligence (AI), which is providing groundbreaking advancements that surpass human physicians in certain medical activities, particularly in the areas of dermatology and radiology, particularly in image processing. Integrating artificial intelligence (AI) with patient records, genomic information, and realtime data improves the precision of diagnoses and the suggestions for therapy. Nevertheless, it is crucial to thoroughly examine the practical consequences and obstacles associated with the integration of AI in healthcare services, particularly with regards to automation bias, excessive reliance, and long-term staffing challenges. Regulatory frameworks play a vital role in assuring safe deployment of artificial intelligence (AI), particularly by acknowledging its classification as 'Software as a Medical Device (SaMD).' In order to fully harness the promise of artificial intelligence (AI) in the healthcare sector, it is imperative to address ethical considerations such as data privacy and algorithmic biases. The rapid expansion of medical data, encompassing electronic health records (EHRs) and data derived from diverse monitoring devices, offers a promising prospect for artificial intelligence (AI) to acquire, manipulate, and evaluate dynamic data in the context of medical interventions. With the aid of advanced data storage and processing capabilities, machine learning algorithms facilitate the ability of artificial intelligence (AI) to offer valuable insights for the purposes of diagnosis, treatment, and proactive health management. Hospitals that are technologically savvy are utilising artificial intelligence (AI) to enhance precision and operational effectiveness. This enables medical personnel and patients to make wellinformed decisions by providing comprehensive treatment alternatives. Recent scholarly research highlights the substantial influence of AI on healthcare, showcasing its superiority in terms of precision, effectiveness, and prompt implementation of medical procedures. The advantages of AI technology encompass various aspects including as diagnosis, treatment, consultation, and health monitoring, hence leading to enhanced patient outcomes and a higher quality of life. Nevertheless, there are still obstacles to overcome, such as guaranteeing the protection of data and privacy, as well as creating innovative AIpowered service delivery frameworks. The effective utilisation of artificial intelligence (AI) in the healthcare sector necessitates a collective endeavour among many parties involved to tackle obstacles and fully exploit its capacity to revolutionise the provision of medical services to patients.

**Keywords:** Artificial intelligence, healthcare, diagnosis, treatment, patient care, operational efficiency, regulatory considerations, ethical challenges.

#### I. INTRODUCTION

In recent times, the healthcare industry has witnessed the emergence of artificial intelligence (AI) as a significant catalyst for change, presenting unparalleled prospects for the transformation of patient care and clinical methodologies. "AI technologies have the potential to significantly enhance diagnostic accuracy and streamline administrative processes, hence fostering innovation and improving healthcare delivery on a global scale." This article investigates the capabilities and possibilities of artificial intelligence (AI) in transforming the healthcare sector. It analyses the effects of AI on several facets of the industry and emphasises significant prospects and obstacles. Through the responsible and collaborative utilisation of AI technologies, healthcare stakeholders have the opportunity to harness the revolutionary potential of AI in order to increase patient outcomes, optimise operational efficiency, and contribute to the establishment of a healthcare future that is both sustainable and equitable.

Anmol Arora (2020) Artificial intelligence (AI) is widely acknowledged as a revolutionary advancement and is already shown the ability to surpass human physicians in diagnosing some medical diseases, particularly in the field of dermatology and radiology, particularly in image analysis. The capacity of AI systems to learn from patient records, genomic information, and real-time patient data enhances these capacities. AI has a wide range of applications, including integration with robotics and the development of training materials for clinicians. Although there is a growing body of research on artificial intelligence (AI), there has been a relative lack of focus on the practical implications for healthcare services and the potential obstacles to its deployment. Artificial intelligence (AI) is acknowledged as a 'Software as a Medical Device (SaMD)' and is progressively garnering attention from regulatory bodies. The adoption of artificial intelligence (AI) necessitates careful consideration and cautious implementation to mitigate potential hazards such as automation bias, overdependence, and long-term staffing challenges. In addition to the extensively documented generic hazards connected with artificial intelligence (AI), such as concerns over data privacy, algorithmic biases, and corrigor. Artificial intelligence (AI) has the capability to enhance previous achievements by using the Internet of Things (IoT), digitising patient records, and utilising genetic data as sources of information. The synergies play a crucial role in harnessing the full potential of AI and effectively utilising the data's potential. As machine learning algorithms start to analyse various datasets, it is crucial to maintain clinicians' autonomy in the diagnostic process and assure their comprehension of the algorithmic processes involved in generating diagnoses. This review employs existing management literature to examine the role of artificial intelligence as a digital healthcare innovation, while also identifying potential dangers and possibilities associated with its implementation.

Current artificial intelligence (AI) advancements in the healthcare sector involve the use of Big Data,

machine learning algorithms, and robots for the purpose of monitoring, detecting, and quantifying risks and benefits (Hossen and Armoker, 2020; Dharani & Krishnan, 2021). In order to optimise processes and streamline the delivery of healthcare services, the healthcare industry primarily depends on the utilisation of medical data and analytics. In recent years, there has been a significant increase in the volume and scope of collected medical data. For instance, a substantial volume of data is produced by medical professionals, researchers, and patients. This data encompasses electronic health records (EHRs), medical imaging data, and other data obtained from diverse monitoring devices, including health tracking devices and applications. It is noteworthy that individuals are progressively utilising this data in everyday situations, extending beyond the realm of medical care (Antoniou et al., 2018; Xie et al., 2020).

AI technology in this context possesses the capability to acquire data, handle it, conduct dynamic examinations, and generate outcomes that can be efficiently utilised for medical intervention (Comito et al., 2020). Machine learning methods, backed by robust data storage and processing capabilities, are commonly employed to fulfil this function (Woo et al., 2021). For instance, by regularly observing medical data, it is possible to build dependable forecasts based on patient behaviour patterns. Consequently, artificial intelligence (AI) has the potential to provide recommendations for diagnosis, medical intervention, therapeutic insights, and strategies aimed at mitigating health deterioration. Additionally, AI can support proactive measures to prevent the deterioration of patient conditions, thereby improving patient outcomes throughout different stages of diagnosis and illness, as well as facilitating medication prescription and utilisation. Hospitals with significant technological capabilities are currently investigating the utilisation of artificial intelligence (AI) technology as a means to enhance the precision of medical procedures and reduce operational expenses (Sqalli and Al-Thani, 2019; Zhou et al., 2020). AI empowers medical personnel and patients to make well-informed decisions regarding treatment plans by providing comprehensive information on various treatment possibilities.

According to Alia et al. (2023), The utilisation of artificial intelligence (AI) technology is causing rapid transformations in the administrative and medical procedures of healthcare organisations. This alteration exemplifies the significant influence of artificial intelligence (AI) across various domains, with a special emphasis on its role in medical procedures pertaining to timely identification and assessment. Prior research indicates that artificial intelligence (AI) has the potential to enhance the quality of services within the healthcare sector. AI-driven technologies have been documented to enhance the quality of human life, facilitating convenience, safety, and productivity. This study provides a comprehensive analysis of scholarly articles pertaining to the use of artificial intelligence (AI) within the healthcare industry. The initial analysis encompassed a total of 1,988 scientific publications sourced from prominent academic databases. Following a meticulous examination, the list was refined to 180 articles for comprehensive research in order to offer a classification framework based on four dimensions: The advantages, difficulties, approaches, and capabilities of AI-powered healthcare. It has been determined that AI consistently surpasses humans in terms of precision, effectiveness, and prompt completion of medical and associated administrative procedures. The advantages for patients are directly associated with the pertinent artificial intelligence (AI) capabilities in the domains of diagnosis, therapy, consultation, and health monitoring for the purpose of self-management of chronic illnesses. This study identifies potential avenues for future research in the domains of value-added healthcare services for medical decision-making, health data security and privacy, health monitoring features, and innovative IT service delivery models utilising artificial intelligence (AI).

### The Rise of AI in Healthcare:

#### The rise of AI in healthcare can be attributed to several key factors:

Advancements in Technology: Technological advancements, particularly in the fields of machine learning and deep learning, have enabled AI algorithms to process and analyze large volumes of healthcare data with unprecedented speed and accuracy. This has facilitated the development of AI applications capable of performing complex medical tasks, such as image recognition, natural language processing, and predictive analytics.

**Increasing Availability of Healthcare Data:** The proliferation of electronic health records (EHRs), medical imaging data, genomic data, and other forms of healthcare data has created vast repositories of information for AI systems to leverage. This abundance of data provides AI algorithms with the necessary inputs to learn and improve their performance over time.

**Growing Demand for Healthcare Solutions:** The healthcare industry faces numerous challenges, including rising healthcare costs, growing patient populations, and an increasing prevalence of chronic diseases. In response, there is a growing demand for innovative solutions to improve healthcare delivery, enhance patient outcomes, and optimize resource allocation. AI technologies offer the potential to address these challenges by providing insights and recommendations that can support clinical decision-making and improve operational efficiency.

**Demonstrated Success in Various Applications:** AI has demonstrated success in a wide range of healthcare applications, from medical imaging and diagnostics to drug discovery and personalized medicine. For example, AI algorithms have been shown to outperform human clinicians in tasks such as detecting tumors on medical images and predicting patient outcomes. These successes have fueled interest and investment in AI technologies within the healthcare industry.

**Supportive Regulatory Environment:** Regulatory bodies, such as the Food and Drug Administration (FDA) in the United States, have begun to establish frameworks for the evaluation and approval of AIbased medical devices and software. These regulatory efforts provide a pathway for the safe and responsible integration of AI technologies into clinical practice, giving healthcare providers confidence in adopting AI solutions.

Overall, the convergence of technological advancements, abundant healthcare data, industry demand, demonstrated success, and regulatory support has contributed to the rapid rise of AI in healthcare. As AI

continues to evolve and mature, its impact on healthcare delivery and patient outcomes is expected to grow significantly in the coming years.

#### **Importance of AI Enablement:**

The importance of AI enablement in healthcare lies in its potential to revolutionize various aspects of the industry, ultimately leading to improved patient outcomes, operational efficiency, and cost-effectiveness. Here are some key aspects of the importance of AI enablement:

**Enhanced Diagnostic Accuracy:** AI algorithms can analyze medical data, including imaging scans, patient records, and genetic information, to assist healthcare providers in making more accurate and timely diagnoses. By leveraging AI for diagnostic purposes, healthcare professionals can detect diseases at earlier stages, leading to better treatment outcomes and potentially saving lives.

**Personalized Treatment Plans:** AI enables the development of personalized treatment plans tailored to individual patient needs. By analyzing vast amounts of patient data, including medical history, genetic markers, and treatment responses, AI algorithms can recommend the most effective treatment options for each patient. This personalized approach to healthcare can improve treatment efficacy and reduce the risk of adverse reactions.

**Streamlined Administrative Processes:** AI can streamline administrative tasks such as appointment scheduling, billing, and medical record-keeping, freeing up healthcare professionals to focus more on patient care. By automating repetitive tasks and optimizing workflows, AI enablement can improve operational efficiency and reduce administrative overhead for healthcare organizations.

**Predictive Analytics for Disease Prevention:** AI algorithms can analyze patient data to identify patterns and trends that may indicate the risk of developing certain diseases. By leveraging predictive analytics, healthcare providers can implement proactive interventions to prevent or manage chronic conditions more effectively. This proactive approach to healthcare can lead to better health outcomes and lower healthcare costs over time.

**Support for Remote Patient Monitoring:** AI-powered remote patient monitoring solutions can track patient health metrics in real-time and alert healthcare providers to any abnormalities or changes in condition. This enables early intervention and proactive management of chronic conditions, reducing the need for hospitalizations and emergency room visits.

**Research and Drug Discovery:** AI algorithms can analyze large datasets to identify potential drug candidates, predict drug interactions, and optimize treatment regimens. By accelerating the drug discovery process and reducing the time and cost associated with clinical trials, AI enablement can bring new treatments to market faster and improve patient access to innovative therapies.

In summary, the importance of AI enablement in healthcare lies in its ability to drive innovation, improve patient care, and optimize healthcare delivery. "By leveraging AI technologies, healthcare

organizations can harness the power of data-driven insights to transform the way healthcare is delivered, ultimately leading to better outcomes for patients and providers alike."

## III. AI IN DIAGNOSIS AND TREATMENT

AI in diagnosis and treatment has revolutionized healthcare in several significant ways:

**Improved Diagnostic Accuracy:** AI algorithms have demonstrated the ability to analyze medical images, such as X-rays, MRIs, and CT scans, with remarkable accuracy. These algorithms can detect subtle abnormalities that may be missed by human observers, leading to earlier and more accurate diagnoses of conditions like cancer, cardiovascular disease, and neurological disorders. "By assisting radiologists and other healthcare professionals in interpreting medical images, AI helps to ensure that patients receive timely and appropriate treatment."

**Enhanced Disease Detection and Prediction:** AI algorithms can analyze large datasets of patient information, including medical records, genetic data, and biomarkers, to identify patterns and trends that may indicate the risk of developing certain diseases. For example, AI can predict the likelihood of a patient developing diabetes or cardiovascular disease based on their medical history, lifestyle factors, and genetic predisposition. By providing early warning signs of potential health risks, AI enables healthcare providers to implement preventive measures and interventions to mitigate the progression of disease.

**Personalized Treatment Plans:** AI enables the development of personalized treatment plans tailored to individual patient characteristics and needs. By analyzing vast amounts of patient data, including genetic information, treatment responses, and outcomes, AI algorithms can recommend the most effective treatment options for each patient. This personalized approach to treatment ensures that patients receive therapies that are most likely to be effective for their specific condition, improving treatment outcomes and reducing the risk of adverse reactions.

**Optimized Treatment Strategies:** AI algorithms can analyze data from clinical trials, electronic health records, and medical literature to identify optimal treatment strategies for various conditions. By synthesizing evidence-based recommendations, AI helps healthcare providers make more informed decisions about treatment options, dosage regimens, and follow-up care. "This ensures that patients receive the most appropriate and effective care based on the latest scientific evidence and clinical guidelines."

**Support for Clinical Decision-Making:**Clinical decision support systems (CDSS) that are powered by artificial intelligence (AI) offer healthcare practitioners immediate guidance and recommendations for the provision of patient care. In order to aid doctors in making diagnostic and treatment decisions, these systems employ the analysis of patient data, medical literature, and best practices. By integrating AI-driven insights with clinical experience, Clinical Decision Support Systems (CDSS) contribute to the reduction of diagnostic errors, enhancement of treatment outcomes, and improvement of patient safety.

AI has significantly transformed healthcare by raising diagnostic precision, improving disease identification and forecasting, facilitating tailored treatment plans, optimising therapy approaches, and bolstering clinical decision-making. With the ongoing development and advancement of AI, its influence on healthcare provision and patient results is anticipated to expand, propelling the field of medicine forward and enhancing the standard of care for patients globally.

### IV. ENHANCING PATIENT CARE AND ENGAGEMENT

AI is enhancing patient care and engagement in healthcare in several impactful ways:

**Virtual Health Assistants and Chatbots:** AI-powered virtual health assistants and chatbots provide patients with instant access to information, guidance, and support. "These virtual assistants can answer questions, provide medication reminders, schedule appointments, and offer personalized health advice based on the patient's medical history and symptoms." By facilitating continuous communication and engagement between patients and healthcare providers, virtual assistants improve access to care and empower patients to take an active role in managing their health.

**Remote Patient Monitoring:** AI enables remote patient monitoring solutions that track patients' health metrics in real-time using wearable devices and sensors. These solutions can monitor vital signs, medication adherence, and disease progression, alerting healthcare providers to any abnormalities or changes in the patient's condition. By enabling proactive monitoring and early intervention, AI-powered remote patient monitoring improves patient outcomes, reduces hospital readmissions, and enhances patient engagement in self-management of chronic conditions.

**Personalized Health Recommendations:** AI analyzes patient data, including medical history, lifestyle factors, and treatment responses, to generate personalized health recommendations and interventions. These recommendations may include dietary advice, exercise plans, medication adjustments, and preventive screenings tailored to the individual patient's needs and preferences. By providing personalized guidance and support, AI empowers patients to make informed decisions about their health and well-being, leading to better outcomes and improved patient satisfaction.

**Behavioral Health Interventions:** AI-powered behavioral health interventions help patients manage stress, anxiety, depression, and other mental health conditions through virtual coaching, cognitive-behavioral therapy (CBT), and mindfulness exercises. These interventions use AI algorithms to assess patients' emotional states, track mood patterns, and deliver personalized interventions based on individual needs and preferences. By offering accessible and convenient mental health support, AI enhances patient engagement in self-care and promotes overall well-being.

Health Education and Empowerment: AI-driven health education platforms deliver personalized educational content and resources to patients, empowering them to make informed decisions about their

health and lifestyle choices. These platforms use AI algorithms to analyze patient preferences, learning styles, and health literacy levels to deliver tailored educational materials on topics such as disease management, medication adherence, preventive care, and healthy living. By promoting health literacy and empowerment, AI enables patients to become active participants in their care and advocates for their own health.

Overall, AI is enhancing patient care and engagement in healthcare by providing virtual health assistants and chatbots, enabling remote patient monitoring, delivering personalized health recommendations, offering behavioral health interventions, and promoting health education and empowerment. By leveraging AI technologies, healthcare providers can improve patient outcomes, enhance patient satisfaction, and foster greater patient engagement in their own health and wellness journey.

## V. HEALTHCARE OPERATIONS AND ADMINISTRATIVE EFFICIENCY

AI is transforming healthcare operations and administrative efficiency in several significant ways:

**Streamlining Administrative Tasks:** AI automates repetitive administrative tasks such as appointment scheduling, billing, and medical record-keeping, reducing the burden on healthcare staff and improving efficiency. Natural language processing (NLP) algorithms enable AI-powered chatbots and virtual assistants to interact with patients, schedule appointments, and answer common inquiries, freeing up administrative staff to focus on more complex tasks.

**Predictive Analytics for Resource Allocation:** AI-powered predictive analytics models analyze large datasets of patient information, staffing levels, and resource utilization patterns to predict future demand for healthcare services. These models can forecast patient admissions, emergency department visits, and surgical procedures, enabling healthcare organizations to allocate resources more effectively and optimize staffing levels to meet patient needs.

**Optimizing Inventory Management:** AI algorithms optimize inventory management by analyzing supply chain data, demand forecasts, and usage patterns to predict when medical supplies and equipment will be needed. By automating inventory replenishment and optimizing stock levels, AI helps healthcare organizations reduce waste, minimize stockouts, and ensure that essential supplies are always available when needed.

**Improving Revenue Cycle Management:** AI streamlines revenue cycle management by automating tasks such as claims processing, coding, and billing. Machine learning algorithms analyze medical documentation and billing codes to ensure accuracy and compliance with regulatory requirements, reducing the risk of denials and delays in reimbursement. By accelerating the revenue cycle and minimizing revenue leakage, AI improves cash flow and financial performance for healthcare organizations.

**Enhancing Operational Efficiency:** AI-driven process optimization tools identify inefficiencies and bottlenecks in healthcare operations, such as patient flow, bed management, and discharge processes. These tools use data analytics and simulation modeling to identify opportunities for improvement and recommend actionable insights to optimize workflows, reduce wait times, and enhance overall operational efficiency.

**Ensuring Compliance and Risk Management:** AI-powered compliance monitoring tools help healthcare organizations ensure compliance with regulatory requirements and mitigate risks such as fraud, waste, and abuse. AI algorithms analyze transactional data, electronic health records, and claims data to identify anomalous patterns and potential compliance violations, enabling proactive intervention and risk mitigation.

Overall, AI is revolutionizing healthcare operations and administrative efficiency by streamlining administrative tasks, predicting resource needs, optimizing inventory management, improving revenue cycle management, enhancing operational efficiency, and ensuring compliance and risk management. "By leveraging AI technologies, healthcare organizations can reduce costs, improve productivity, and deliver high-quality care more effectively and efficiently."

## VI. CONCLUSION: HARNESSING THE TRANSFORMATIVE POWER OF AI

The article titled "Revolutionising Healthcare: The Power and Potential of AI Enablement" provides a comprehensive analysis of the profound influence that artificial intelligence (AI) has had on the healthcare sector. The text highlights the significant impact of AI in increasing patient care, improving diagnostic precision, simplifying administrative procedures, and promoting increased patient involvement. The swift progressions in technology, in conjunction with the growing accessibility of healthcare data, have facilitated the potential for artificial intelligence (AI) to fundamentally transform multiple facets of healthcare provision. Artificial intelligence (AI) has exhibited its capacity to foster innovation and enhance outcomes across several domains, encompassing disease diagnosis, personalised treatment planning, and resource allocation optimisation. Nevertheless, the extensive implementation of AI in the healthcare sector also poses difficulties, such as apprehensions regarding data protection, adherence to regulations, and ethical deliberations. Stakeholders must work together to tackle these difficulties and guarantee the responsible implementation of AI technologies. In general, the effective use of artificial intelligence (AI) in the healthcare sector necessitates a well-rounded strategy that capitalises on its potential benefits while also acknowledging and mitigating possible hazards and ethical considerations. By adopting responsible AI enablement, the healthcare sector can fully harness its promise to transform patient care and enhance health outcomes for individuals and communities on a global scale.

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