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## IMPACT OF ARTIFICIAL INTELLIGENCE IN HEALTH CARE: AREVIEW OF CURRENT APPLICATIONS AND FUTURE POSSIBILITIES

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### ABSTRACT

Artificial Intelligence is a transformative force driving change in every facet of modern lives, from healthcare to education, business, and entertainment. Artificial Intelligence is capable of revolutionizing healthcare through the improvement of patient outcomes, cost reduction, and enhanced efficiency. In this paper we provide a detailed overview of the present applications of AI in the medical sector, including machine learning, natural language processing, and robotics. It also discusses potential future developments like personalized medicine, predictive disease management, and speedy drug discovery. Furthermore, the article explores the ethical and regulatory issues surrounding the incorporation of AI in healthcare and emphasizes the necessity for proper implementation.

Keywords: AI, Healthcare, Disease, Medicine, Human-AI Interaction, ML, NLP.

### I. INTRODUCTION

Artificial Intelligence (AI) is changing healthcare at a rapid pace, providing revolutionary advances that enhance patient care, decrease expenses, and increase efficiency. AI involves a wide array of technologies that allow computers to replicate human intelligence, such as learning, reasoning, and problem-solving. The use of AI in healthcare has already shown vast promise, and with advancing technology, its impact will increase even more. This paper discusses the present and future uses of AI in healthcare, including major technologies like machine learning, natural language processing, and computer vision. These technologies are transforming diagnostics, treatment planning, administrative processes, and medical research. One of the most promising uses of AI is in medical imaging and diagnostics. AI software can process medical images like X-rays, CT scans, and MRIs with high accuracy, allowing for early detection of abnormalities, tumors, and other conditions. This can result in more rapid diagnoses and better outcomes. Outside of imaging, AI-based virtual assistants and chatbots are improving patient engagement by delivering personalized health information, responding to health-related questions, and aiding in symptom evaluation. These technologies enhance healthcare access while minimizing the burden on healthcare professionals. AI is also propelling predictive analytics and remote patient monitoring.

#### **1.1Literature Review**

Various studies and research papers have delved into the application of Artificial Intelligence (AI) in healthcare, with its benefits as well as the drawbacks associated with its deployment. A number of prominent works in this area offer worthwhile information regarding the application of AI in revolutionizing medical practices. For example, Hsueh et al. (2018) in "Artificial Intelligence in Healthcare: Past, Present, and Future" present an overall picture of the growth of AI in healthcare and the future ahead. Oermann et al. (2019) address the effects of AI on medical imaging in "Challenges and Opportunities in the Use of Artificial Intelligence for Medical Imaging," highlighting regulatory and ethical concerns. Equally, Abd-Alrazaq et al. (2019) discuss the application of machine learning in clinical decision-making in "Potential of Machine Learning in Clinical Medicine and Decision-Making," including ethical and regulatory issues. Capan et al. (2019), in "Ethical and Social Implications of Artificial Intelligence in Healthcare," discuss important topics like accountability, transparency, and bias. In addition, Srinivasa et al. (2018) present an overview of robotic-assisted surgery in "Robotic-Assisted Surgery: A Current Perspective," highlighting its advantages and regulatory challenges. These investigations highlight AI's revolutionary value to healthcare while also emphasizing the importance of overcoming ethical, legal, and regulatory challenges to allow it to be safely and effectively utilized.

#### 1.2Current Applications of AI in Healthcare

Machine learning, an offspring of Artificial Intelligence (AI), allows computers to learn from data and make choices independently without being programmed. In medicine, it has emerged as a potent force, propelling



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medical imaging, diagnosis, treatment planning, and predictive analytics. With enormous amounts of data, machine learning models can identify subtle patterns, make precise predictions, and aid in clinical decisionmaking, leading to better patient outcomes. One of the most significant uses of machine learning in medicine is medical imaging. Machine learning models trained on massive sets of labeled images—e.g., MRI scans, X-rays, and CT scans—are able to classify and identify abnormalities, tumors, and other conditions with high accuracy. These artificial intelligence-based models augment the work of radiologists by detecting minute patterns that the human eye may struggle to pick up, allowing for quicker and more accurate diagnoses. Outside of imaging, machine learning is also key to predictive modeling for disease outcome and treatment response. Through examination of patient data such as clinical history, genetic makeup, and biomarkers, the algorithms are able to determine risk factors, predict disease outcome, and help clinicians make proactive treatment decisions. In cancer, for example, machine learning algorithms can predict cancer recurrence and recommend personalized treatment, enhancing patient outcomes and survival rates. Machine learning also assists in optimizing treatment plans through analysis of huge numbers of medical records, treatment outcomes, and clinical guidelines. Such models can deliver personalized recommendations according to the specific patient characteristics, assisting healthcare practitioners in choosing the best treatment. Machine learning also assists in medical research by recognizing new patterns within biomedical data. Through the analysis of large-scale genomic, proteomic, and other biological data, AI-based models are able to identify genetic markers, biomarkers, and drug targets, speeding up drug discovery and opening the door to more targeted therapies. While its potential is vast, incorporating machine learning into healthcare is not without challenges. Data quality, privacy issues, and ethical considerations must be addressed in order to implement it responsibly. Availability of varied and high-quality data, and cooperation between data scientists and healthcare professionals, is essential to optimizing the potential of machine learning in healthcare. With ongoing development and proper regulation, machine learning can transform healthcare, improving diagnostic precision, treatment efficacy, and overall patient care.

Aspect	Traditional Healthcare	AI-Driven Healthcare	
Diagnosis	Based on physician expertise and medical tests	AI analyzes vast datasets for early and precise diagnosis	
Treatment Planning	Standardized treatment approaches	Personalized treatment using patient-specific data	
Efficiency	Time-consuming manual processes	Automated workflows and predictive analytics	
Cost	Higher operational costs	Reduced costs through automation and optimize resource allocation	
Patient Monitoring	Limited real-time monitoring	AI-powered continuous monitoring and remote care	



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Figure 1: AI applications in healthcare

#### 1.3 Natural Language Processing (NLP)

Natural Language Processing (NLP) is a technical field of Artificial Intelligence (AI) that allows computers to read, analyze, and produce human language. NLP is applied in various areas of healthcare, such as clinical documentation, patient interaction, and medical research. One of its most important applications is in processing and extracting useful information from huge volumes of unstructured medical text, including electronic health records (EHRs), clinical notes, and scientific literature. Through the identification of important clinical information—like diagnoses, treatments, and lab results—NLP increases data availability, facilitates decision-making, and enhances overall patient care. NLP is also important in enabling clinical decision-making through the analysis of medical literature, treatment protocols, and patient information. Such systems can come up with evidence-based suggestions, facilitating evidencebased decision-making by healthcare professionals. For example, NLP is capable of analyzing patient symptoms and medical history to propose possible diagnoses or suggesting tailored treatment options based on contemporary medical practice. NLP also aids in patient safety via adverse event detection. Through reviewing patient charts, it can detect patterns that suggest medication error or adverse drug reactions, allowing for early intervention and minimizing risks. Aside from clinical use, NLP also increases patient involvement and interaction. Virtual assistants and chatbots, which are based on AI, utilize NLP to communicate with patients, respond to health-related questions, share educational material, and book appointments. These systems build a more convenient and effective healthcare experience by comprehending and answering natural language commands. NLP also speeds medical research by scanning large volumes of scientific literature, detecting trends, and helping researchers discover new ideas and hypotheses, advancing medicine in the process. Even with its great potential, NLP implementation in healthcare is not easy. Human language is native to context and loaded with medical terms, which are hard for AI systems to interpret accurately. Terms in different languages change from place to place, making data sensitive and private. Coming up with sophisticated NLP algorithms that can provide adequate responses to these challenges with high accuracy is still a top research priority. With advancing technology, NLP is likely to continue playing an increasingly important role in maximizing the delivery of healthcare, enhancing patient outcomes, and promoting medical innovation.

#### 1.4 Robotics is Another Area of AI that has the Potential to Transform Healthcare

Robotics, which is an integral part of Artificial Intelligence (AI), is revolutionizing healthcare by improving surgical accuracy, enhancing patient care, and streamlining healthcare operations. Robotics makes it possible to combine AI with mechanical systems so that machines can execute complicated physical operations with precision and effectiveness. From surgery assistance to rehabilitation and remote patient monitoring, robotics is changing the face of medical care. One of the most significant applications of robotics in healthcare is robotic-assisted surgery. Advanced surgical systems, such as the da Vinci Surgical System, allow surgeons to perform minimally invasive procedures with enhanced precision, dexterity, and control. These robotic systems utilize specialized instruments and 3D visualization to improve surgical accuracy, leading to reduced recovery times, shorter hospital stays, and better patient outcomes. Outside of surgery, robots are also becoming increasingly



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important in patient care and rehabilitation. They can aid healthcare workers with heavy lifting and patient transfers, lessening the burden and minimizing workplace injuries. Robotic exoskeletons also offer mobility assistance for patients with injuries or neurological conditions, enabling them to rebuild strength and independence. Robotics is also making progress in telemedicine and remote monitoring of patients. AI-enabled robots with sensors are able to travel independently in hospital corridors and patient rooms, taking vital signs and sending real-time information to medical professionals. Such features facilitate prompt medical intervention, especially in rural or underdeveloped areas where healthcare facilities are scarce. In addition, robotics is enhancing the logistics and efficiency of healthcare operations. Autonomous robots are being deployed for duties such as drug delivery, supply inventory, and cleaning of hospital surfaces. Automation minimizes labor-intense tasks, improves accuracy, and enables clinicians to dedicate more time to patient care.

Healthcare Area	AI Application		
Radiology	AI-based image analysis for early disease detection		
Oncology	AI-driven cancer detection and personalized treatment plans		
Surgery	Robotic-assisted surgeries with enhanced precision		
Drug Discovery	AI accelerates drug research and clinical trials		
Patient Monitoring	AI-enabled wearable devices and remote monitoring		
Administrative Tasks	AI automates scheduling, billing, and medical documentation		

 Table 2: AI Applications in Different Healthcare Sectors

#### **II. CHALLENGES**

Although the adoption of robotics in healthcare has many benefits, various challenges need to be addressed to enable successful implementation:

**High Costs**: The purchase, upkeep, and maintenance of robotic systems can be expensive, rendering adoption for many healthcare organizations challenging. The cost may hamper accessibility, especially for small facilities.

**Reliability and Safety**: Robotic systems must operate safely and reliably, particularly in risky medical procedures. Proper testing, validation, and compliance with regulatory requirements are required to avoid errors, malfunctioning, and adverse events.

**Training and Competency Development**: The proper utilization of robotics in healthcare necessitates professional training for healthcare practitioners. The high learning curve demands continuous education for ensuring competency and maximizing patient outcomes.

**Interoperability and Integration**: Seamless integration of robotics with existing healthcare infrastructure, such as electronic health records (EHRs) and other medical technologies, is critical to ensure seamless workflow and data transfer. Compatibility and interoperability issues need to be resolved.

**Ethical and Legal Issues**: Robotics usage is also subject to ethical issues like patient consent, privacy, and the possible decline in human interaction. Ethical standards and legal frameworks are important to ensure trust and safeguard patient rights.

**Acceptance and Resistance**: There will be some healthcare workers resisting robotics acceptance because they might fear losing their jobs or a decrease in the human touch in care. Encouraging cooperation and showing the supplementary nature of robotics can break through resistance.

**Regulatory and Reimbursement Issues**: Regulatory systems need to adapt to integrate robotics into healthcare to ensure compliance and patient safety. Reimbursement schemes must also be revised to reasonably compensate for robotic-assisted surgery, prompting increased uptake.

**Insufficient Clinical Evidence**: Despite the potential of robotics, stronger clinical studies and longer-term research must be conducted to prove its efficacy, cost-effectiveness, and broader effect on healthcare outcomes.



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**Data Quality and Privacy**: AI-powered robotics relies on high-quality, unbiased data to operate correctly. Incomplete or inconsistent healthcare data can impact results, while patient data privacy concerns necessitate rigorous protection against misuse.

**Regulatory and Ethical Oversight**: Transparency, accountability, and equity in AI algorithms need to be guaranteed to avoid bias or discrimination. Regulatory authorities need to come up with guidelines that will foster the ethical and safe use of AI-based robotics.

**Adoption and Workflow Integration**: Effective AI and robotics deployment demands integration with current healthcare infrastructure. Education of healthcare professionals and overcoming technological resistance are essential prerequisites for easy adoption.

**Liability and Accountability**: Holding someone accountable for an AI system's mistake that causes harm to a patient is still an issue. Specific legal frameworks have to be set up to delineate liability and provide protection for patients.

Resolving these challenges will be key to realizing the maximum potential of robotics in medicine, enhancing patient care, and maximizing medical processes.

#### 1.50pportunities

The use of robotics in healthcare provides a multitude of possibilities to improve patient care, enhance medical procedures, and optimize healthcare operations. Some of the most significant benefits are:

**Improved Precision and Accuracy**: Robotic systems are known to possess high precision and control in medical procedures, minimizing risks and maximizing surgical performance. With their capability of executing complex tasks with great accuracy, robotic arms assist in avoiding human errors and overall patient safety.

**Minimally Invasive Procedures**: Robotic assistance enables smaller wounds, resulting in less scarring, less pain, and faster recovery. These result in brief hospital stays as well as faster return to baseline activities for the patient.

**Remote Monitoring and Telemedicine**: With advanced sensors, cameras, and communication equipment, robotic systems facilitate remote patient monitoring and telemedicine. With this technology, healthcare access becomes more enhanced, particularly in far-flung or underserved areas, through the real-time assessment and intervention by medical professionals.

**Automation of Repetitive Tasks**: Robots are able to perform physically demanding and repetitive tasks, like lifting patients or handling logistics, taking the burden off healthcare professionals. Automating routine tasks allows medical professionals to concentrate on more complicated areas of patient care.

**Rehabilitation and Assistive Technology**: Assistive devices like robotic exoskeletons offer mobility assistance to patients who are rehabilitating. These technologies aid the regaining of strength, greater movement, and quality of life.

**Optimized Healthcare Operations**: Automating processes in such functions as medication administration, inventory control, and sterilization enhances efficiency and decreases errors. This process streamlining enables healthcare staff to spend more time treating patients and making key decisions.

**Advanced Training and Simulation**: Robotics, augmented by virtual reality (VR) and augmented reality (AR), provides secure and controlled environments for medical training. Surgeons and healthcare providers can hone their skills and rehearse complicated procedures before applying them to actual patients.

**Data-Driven Insights**: The combination of robotics creates a huge amount of healthcare data that can be reviewed to identify patterns, forecast complications, and enhance patient outcomes. Machine learning models can leverage such data to create more customized treatment plans and accelerate medical research.

**Improved Diagnostics and Treatment**: Robotic systems with AI can analyze large sets of medical data to help facilitate more precise diagnoses and better treatment planning, thereby enhancing patient outcomes.

**Personalized Medicine**: On the basis of individual patient data, AI can detect health risks and design treatment protocols accordingly. The personalized medicine increases the efficacy of medical treatment and provides improved patient outcomes.



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**Cost Efficiency and Resource Optimization**: Robotics and AI assist in automating routine procedures, minimizing medical errors, and aligning resources, which results in increased efficiency and reduced operational expenses.

**Expansion of Remote Care**: Artificial intelligence-based technologies enable telemedicine and remote diagnosis, making healthcare more accessible for patients in underserved or rural areas.

**Rapid Drug Discovery**: Artificial intelligence-based simulations have the potential to identify possible drug candidates and foretell their action, drastically improving the process of drug development and pharmaceutical research.

By leveraging these opportunities, robotics can significantly revolutionize healthcare, improving efficiency, enhancing patient care, and driving advancements in medical science. Collaboration among healthcare professionals, technology developers, researchers, and policymakers is essential to ensure the seamless and effective integration of robotics into healthcare systems.

### III. FUTURE POSSIBILITIES OF AI IN HEALTHCARE

The future of AI in medicine is full of promise, with developments set to transform medical treatment, diagnosis, and patient care. Perhaps the most promising field is personalized medicine, where AI can sift through vast amounts of data—genetic data, lifestyle factors, and environmental factors—to develop customized treatment plans that are specific to individual patients. In the same way, AI can forecast and avoid disease by combining information from medical history, genetic testing, and environmental sources to determine high-risk patients and create anticipatory healthcare plans. Another revolutionary use is in drug discovery, where AI-powered analytics can speed the discovery of new drug targets, streamline clinical trials, and shorten the time and expense of getting new treatments to market. Artificial intelligence-driven smart imaging and diagnostics have the potential to increase accuracy by reading medical images like X-rays, MRIs, and CT scans, facilitating early disease detection and increasing diagnostic accuracy. Virtual assistants and chatbots can make patient engagement more effective, providing real-time instructions, answering questions, and assisting with appointment scheduling, medication reminders, and post-care guidance. Predictive analytics and early warning systems can further improve patient outcomes by continuously monitoring vital signs and health records to detect potential complications before they become severe, allowing for timely interventions. Additionally, robotics and automation combined with AI can aid in intricate surgeries, enhance patient care, and optimize hospital operations by automating processes such as medication dispensing and logistics. Natural language processing (NLP) can simplify clinical documentation, derive insights from medical literature, and offer real-time decision support to healthcare professionals. AI-powered remote monitoring and telehealth technologies can monitor patient health remotely, facilitating early intervention for chronic diseases and minimizing the frequency of hospital visits. In spite of these advances, there are some challenges that need to be overcome. Regulatory systems are needed to get AI systems to be safe and effective, especially when it comes to clinical decision-making and patient care. Ethical considerations like data privacy, security, bias, and fairness need to be addressed to avoid AI spreading discrimination. Explainable AI (XAI) models, also called transparent AI models, can provide insights into decision-making and improve accountability. Having diverse and representative training data is imperative in reducing biases and ensuring fairness in AI-based healthcare solutions. To best unlock the power of AI in medicine, continued research and development to advance AI approaches, data quality, and interoperability are essential.

AI Adoption Area	Description	Benefits	Challenges	Examples
Medical Imagining	AI- driven system for analyzing and interpreting medical images (e.g., X-rays, MRIs, CT scans	-Faster diagnosis - Improved accuracy - Reduced human error	-Data privacy concerns -Need for large datasets for training	-IBM Watson Health -Google DeepMind (Eye Disease)
Clinical	AI tools to help	- Better clinical	- Over-reliance on AI	- IBM Watson

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Decision Support Systems	clinicians make more informed decisions based on patient data.	outcomes - Reduces clinician workload - Personalized treatment	- Integration into existing clinical workflows	for Oncology - Aidoc (CT scan analysis)
Robotic Surgery	AI-powered robotic systems for performing surgeries with precision and minimal invasiveness.	- Enhanced precision - Minimally invasive - Faster recovery time	- High cost of implementation - Technical complexity	- Intuitive Surgical's da Vinci Surgical System
Predictive Analytics	Using AI to predict patient outcomes, disease progression, and resource utilization.	- Proactive patient care - Reduces hospital readmissions - Resource optimization	- Data privacy issues - Accuracy of predictions	- Health Catalyst - Tempus
Natural Language Processing (NLP)	AI used to extract meaningful data from unstructured clinical notes, research articles, etc.	- Improved documentation - Faster information retrieval - Enhanced data analysis	- Complexity of medical terminology - Risk of errors in interpretation	- Nuance Dragon Medical - DeepMind (Clinical Notes)
Virtual Health Assistants	AI chatbots or virtual assistants providing real-time patient guidance, reminders, and support.	- 24/7 patient support - Reduces administrative burden - Enhanced patient engagement	- Limited understanding of complex queries - Privacy concerns	- Babylon Health - Buoy Health
Drug Discovery and Development	AI models to identify potential drug candidates and predict their effectiveness.	- Faster drug discovery - Reduced costs - Increased success rate of drug trials	- Ethical concerns - Regulatory hurdles	- Atomwise - Insilico Medicine
Remote Patient Monitoring	AI systems that track patients' health data remotely using wearables and sensors.	- Continuous monitoring - Early detection of health issues - Improved patient adherence	- Data security - Reliance on patient compliance	- Biofourmis - Livongo Health
Personalized Medicine	AI algorithms analyzing genetic, lifestyle, and environmental factors to tailor treatments.	- More effective treatments - Minimizes side effects - Increased patient satisfaction	- Data complexity - High costs of implementation	- Tempus - Foundation Medicine



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### 1.6 Robust Regulatory Framework

An overarching regulatory structure for AI in medicine should include both the algorithms and methods applied in AI systems to guarantee their safe, effective, and ethical use. Critical elements of such a structure are validation and certification procedures that provide strict testing and evaluation requirements to confirm AI reliability and performance. Explainability and transparency are critical, demanding that AI systems give reasonable explanations for their choices, engendering confidence among healthcare practitioners. Data governance principles and guidelines must also ensure AI models learn from representative, high-quality, and diverse data while protecting privacy, security, and ethical data usage. Ethical considerations must be included in the framework with the incorporation of principles of patient autonomy, fairness, and accountability, as well as avoiding discrimination and biases. Ongoing monitoring and auditing of AI algorithms are essential to the detection and mitigation of possible biases, mistakes, and unforeseen effects through continuous evaluation and performance reviews. An organized adverse event reporting system must be put in place to monitor and investigate incidents attributed to AI technologies, facilitating greater accountability and system enhancements. Encouraging ongoing learning and adjustment, AI systems will need to be changed according to new medical findings, feedback from users, and advancements in technology, whereas healthcare providers should be provided with ongoing education to remain current.

### IV. CONCLUSION

The integration of AI in healthcare holds immense potential to revolutionize patient care, enhance medical research, and improve efficiency across the healthcare system. From personalized medicine and early disease detection to advanced diagnostics and robotic-assisted procedures, AI is reshaping the future of medicine. However, to fully harness these benefits, it is crucial to establish a robust regulatory framework that ensures transparency, accountability, and patient safety. Addressing ethical concerns such as data privacy, bias, and equitable access will be essential in fostering trust and promoting responsible AI adoption. By striking a balance between innovation and ethical oversight, AI can be leveraged to create a smarter, more efficient, and more inclusive healthcare system that prioritizes patient well-being and drives medical advancements for years to come.

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