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Artificial Intelligence in Healthcare: Opportunities and Challenges

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Abstract: The rapid advancement of Artificial Intelligence (AI) has permeated virtually every sector, and healthcare is no exception. This research paper undertakes a comprehensive exploration of the vast opportunities and intricate challenges entailed in integrating AI into healthcare systems. It delves into how AI can revolutionize disease diagnosis, customize treatment plans, accelerate drug discovery, and streamline administrative tasks. Additionally, the paper navigates through the complex web of data privacy concerns, ethical dilemmas, and the essential need for a balanced and thoughtful approach to the implementation of AI. Drawing insights from existing AI-driven healthcare systems and a comprehensive review of the current literature, this paper presents an all-encompassing view of the AI landscape. The ensuing discussion underscores the remarkable strides that AI has made within the realm of healthcare, while also underscoring the multifaceted challenges that must be addressed for AI to reach its full potential while safeguarding ethical principles and patient well-being.

Keywords: Artificial Intelligence, Healthcare, Diagnosis, Treatment, Opportunities, Challenges, Data Privacy, Ethics

I. INTRODUCTION

Artificial Intelligence (AI) stands as one of the most transformative technological advancements in recent times. Its potential to revolutionize various sectors is exemplified nowhere more profoundly than in the realm of healthcare. Healthcare systems around the world grapple with challenges ranging from accurate disease diagnosis to resource optimization. The advent of AI introduces a paradigm shift by offering unprecedented capabilities to analyze large datasets, predict trends, and learn from complex patterns. This paper aims to provide an in-depth exploration of the expansive opportunities and intricate challenges entailed in integrating AI into healthcare systems.

The trajectory of technological progress has intersected with the healthcare domain, ushering in an era of unprecedented transformation. Among the myriad technological innovations that have shaped contemporary industries, none have displayed the potential to revolutionize healthcare quite like Artificial Intelligence (AI). The amalgamation of AI's computational prowess with the intricate intricacies of healthcare holds promises of a reimagined landscape where medical diagnostics are sharper, treatment regimens are more tailored, drug discovery is expedited, and administrative efficiency is optimized. As the boundaries of medical science expand, AI emerges as a beacon of innovation, illuminating a path toward unparalleled advancements in patient care and medical research.

In essence, AI represents an evolution beyond conventional computing, mirroring human intelligence in its ability to learn, reason, and adapt. This paper embarks on a profound exploration of AI's integration into healthcare systems, delving into the vast expanse of opportunities and navigating the intricate challenges that lie therein. As AI continues to gain momentum across sectors, healthcare stands poised at the nexus of revolutionary change, poised to reap its benefits in an array of applications, from improving diagnostic accuracy to augmenting medical research.

Within healthcare systems globally, complex issues permeate every facet of operations. Diagnoses demand not only precision but also swiftness; treatments necessitate not just general guidelines but individualized strategies; administrative functions, though essential, demand efficiency to ensure optimal resource utilization. It is here that AI's potential to process and analyze colossal datasets, discern hidden patterns, and forecast outcomes reveals itself as a game-changer. By capitalizing on AI's capabilities, healthcare practitioners can amplify their decision-making prowess, enhancing patient care and clinical efficacy. However, as the proverbial coin has two sides, so does the integration of

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AI into healthcare. Alongside the vast opportunities, a unique set of challenges unfurls, beckoning the healthcare community to navigate uncharted ethical landscapes and data privacy quandaries.

The central premise of this paper lies in its dual examination of the transformative possibilities and the multifaceted challenges that accompany AI's integration into healthcare. Through a panoramic view encompassing the existing AI-driven healthcare systems and the extensive body of relevant literature, this paper endeavors to cast light on the ever-evolving landscape that AI has crafted within the healthcare domain. This exploration extends beyond the surface, delving deep into AI's successes and shortcomings, the ethical dilemmas it poses, and the imperative need for an equilibrium between innovation and ethical responsibility.

II. PROBLEM DEFINITION

Within the complex tapestry of healthcare, a symphony of challenges resounds, each note a poignant reminder of the intricate nature of human health and well-being. The mission to decode the enigma of accurate disease diagnosis, chart personalized treatment trajectories, unearth novel therapeutic agents, and harmonize resource allocation orchestrates a constant struggle. It is within this multifaceted struggle that Artificial Intelligence (AI) emerges as a potential maestro, offering a harmonizing force that can potentially reshape the healthcare narrative.

Disease diagnosis, a cornerstone of effective healthcare, is characterized by its inherent complexity. The task of deciphering symptoms, analyzing medical records, and interpreting diagnostic images necessitates both meticulousness and rapidity. In this backdrop, AI's ability to process colossal datasets and discern intricate patterns presents a tantalizing prospect. However, it is not without its challenges. Data privacy, an ethereal thread linking patient trust and medical information, assumes paramount importance in the digital age. Ensuring patient data remains secure, confidential, and shielded from unwarranted access is non-negotiable. The seamless amalgamation of AI's diagnostic prowess with data privacy safeguards is one of the pivotal challenges to be addressed.

Beyond diagnosis, the specter of treatment personalization looms large. Every patient is a unique composition of genetics, medical history, and individual preferences. AI's potential to parse this mosaic, generating tailored treatment strategies, is tantalizing. Yet, the challenges it presents are multifaceted. Ethical considerations of entrusting lifealtering decisions to algorithms demand delicate introspection. The line between augmenting medical expertise and relinquishing patient well-being to code must be carefully navigated. Moreover, compliance with medical standards and regulations necessitates a careful balance between innovation and adherence to established protocols, ensuring that AI-driven treatment personalization aligns with established medical best practices.

The orchestration of drug discovery, a vital movement in the symphony of healthcare progress, is a dance of intricate molecular interactions and serendipitous discoveries. AI steps onto this stage with the promise to expedite the process, simulating molecular behaviors to predict potential drug candidates. The potential implications are profound, yet so are the challenges. The creation of AI models that accurately predict molecular interactions demands comprehensive data sets, free from bias or inaccuracies. Ensuring that AI-driven drug discovery is not just swift but also safe and effective underscores the need for careful validation and rigorous testing.

Administrative tasks, though less heralded than clinical aspects, are the backbone of efficient healthcare delivery. From appointment scheduling to resource allocation, these functions streamline healthcare operations. Al's capacity to automate these processes holds immense potential, yet the challenge remains in maintaining the delicate balance between automation and the human touch. Ensuring that administrative AI solutions optimize efficiency while retaining the ability to handle nuanced situations requiring human intervention is an intricate balancing act.

In essence, the integration of AI into healthcare carries a dual nature—a harmonious symphony of opportunities that can reshape healthcare, and a complex mosaic of challenges that demand careful navigation. Addressing these challenges involves weaving together the ethical, regulatory, and technological threads into a cohesive fabric that not only leverages AI's potential but safeguards patient welfare and ethical principles.

Addressing these challenges requires a strategic approach and a comprehensive understanding of the organization's specific requirements and goals. By identifying and addressing these challenges head-on, organizations can optimize their RPA adoption and implementation processes, thereby unlocking the full potential of automation to drive efficiency, productivity, and innovation within their business processes.

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III. SUPPORT INFORMATION

Artificial Intelligence (AI) represents a transformative force poised to redefine the contours of healthcare by leveraging its remarkable computational capabilities. At the heart of AI's impact lies its proficiency in processing vast and diverse datasets, extracting insights, and recognizing intricate patterns that often elude human cognition. This capability has profound implications across several critical facets of healthcare, ranging from disease diagnosis to drug discovery, personalized treatment plans, and administrative optimization.

The landscape of disease diagnosis, characterized by its complexity and urgency, is undergoing a profound metamorphosis through AI's intervention. Traditional diagnostic approaches often grapple with challenges like interobserver variability, time constraints, and diagnostic errors. AI-powered diagnostic algorithms, equipped with machine learning and image recognition, have demonstrated remarkable accuracy in analyzing medical images such as X-rays, MRIs, and CT scans. This is not only revolutionizing radiology and pathology but also unlocking potential applications in specialties like dermatology, where AI can discern minute details in skin lesions that are often overlooked by the human eye. The synergy of AI's analytical precision and rapidity holds the promise of timely and precise diagnoses, thereby enhancing patient outcomes and reducing the burden on healthcare providers.

The personalization of treatment strategies is another realm where AI's capabilities shine. Each patient is a unique amalgamation of genetics, medical history, and lifestyle, necessitating a tailored approach to treatment. AI excels in extracting meaningful insights from vast patient datasets, enabling healthcare practitioners to formulate treatment plans that are precisely calibrated to the individual's specific attributes. This personalized approach extends to drug therapies as well, where AI-driven pharmacogenomics analyzes genetic data to predict an individual's response to a particular drug. However, alongside the potential benefits, the challenge lies in ensuring that AI-generated treatment recommendations align with ethical and medical guidelines, striking a balance between augmenting medical expertise and retaining human oversight.

Al's capacity to expedite drug discovery is poised to reshape the pharmaceutical landscape. The traditional drug discovery process is both time-consuming and resource-intensive, often yielding modest results. Al's computational prowess accelerates this process by simulating molecular interactions, predicting potential drug candidates, and even designing novel molecules with desired properties. This holds the potential to unlock new therapies for conditions that were previously considered intractable. Yet, the complex nature of molecular interactions poses challenges in designing AI models that can accurately predict these interactions. Validation and rigorous testing are imperative to ensure that AI-generated candidates meet safety and efficacy standards.

Administrative functions are the lifeblood of healthcare operations, and AI's capacity to optimize these functions holds transformative potential. AI-powered algorithms can streamline appointment scheduling, resource allocation, and billing processes, freeing healthcare professionals from administrative burdens and allowing them to focus on patient care. This enhanced efficiency also extends to predictive analytics that optimize hospital resource allocation, ensuring that patient care is maximized while minimizing unnecessary expenses. However, the challenge here is to strike a delicate balance between automation and the human touch, ensuring that AI systems can handle routine administrative tasks while still being adaptable enough to handle nuanced and complex scenarios that require human intervention.

In essence, AI's infusion into healthcare is akin to adding a powerful instrument to an orchestra—each note it plays resonates across various domains, harmonizing the symphony of healthcare progress. As AI-driven applications continue to evolve, careful consideration and calibration are needed to harness its potential while ensuring that ethical principles, data privacy, and patient welfare remain steadfastly at the forefront.

IV. EXISTING SYSTEM

The integration of Artificial Intelligence (AI) into healthcare has witnessed the birth of transformative systems that stand as beacons of innovation, showcasing AI's potential to reshape the landscape of patient care, diagnostics, and medical research. These pioneering systems not only demonstrate AI's technical prowess but also underscore its practical implications for improving healthcare outcomes.

IBM's Watson for Oncology emerges as a prime example of AI's role in revolutionizing patient care. Operating at the intersection of AI and oncology, Watson for Oncology sifts through vast repositories of medical literature, patient records, and clinical trial data to provide personalized treatment recommendations for cancer patients. By analyzing a

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920



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patient's medical history, genetic data, and tumor characteristics, Watson for Oncology assists oncologists in making informed decisions about treatment options. The system's ability to synthesize and interpret intricate datasets reduces the cognitive burden on healthcare professionals and accelerates the formulation of tailored treatment regimens. Furthermore, it ensures that patients receive evidence-based and up-to-date treatment plans, thus elevating the quality of care.

Google's DeepMind Health strides into the realm of medical imaging, showcasing AI's potential in diagnostic accuracy. By employing AI algorithms to interpret retinal images, DeepMind Health has unlocked the ability to detect eye diseases, including diabetic retinopathy, with unprecedented precision. The system's proficiency in identifying subtle pathological changes that are often imperceptible to the human eye heralds a paradigm shift in ophthalmological diagnostics. Early detection of such conditions is critical to preventing vision loss, and DeepMind Health's AI-driven approach opens avenues for efficient and timely interventions.

These existing AI-driven systems underscore the transformative impact of AI on healthcare. Beyond their technical accomplishments, they illuminate the potential of AI to enhance the capabilities of healthcare professionals, amplify diagnostic accuracy, and expedite treatment decisions. However, the journey is not without its challenges. As these systems continue to evolve, concerns about the interpretability of AI-generated insights, algorithmic biases, and the need for ongoing validation persist. The landscape of AI-driven healthcare systems is one of continuous growth and refinement, demanding a delicate balance between technological advancement and ethical considerations.

V. PROPOSED SYSTEM

The integration of Artificial Intelligence (AI) into healthcare ushers in a new era of possibilities, one where data-driven insights and computational capabilities converge to amplify medical care and research. While the existing AI-driven systems showcase remarkable accomplishments, they also illuminate the nuanced challenges that must be navigated to fully harness AI's potential within healthcare. The proposition of a harmonious AI-driven healthcare ecosystem necessitates a comprehensive approach that considers technical, ethical, and regulatory aspects.

- Data Privacy and Security: The cornerstone of any successful AI-driven healthcare system is the robust
 protection of patient data privacy and security. The proposed system emphasizes the implementation of stateof-the-art encryption methods, stringent access controls, and secure data storage solutions. By adhering to
 established data protection frameworks and compliance regulations such as HIPAA or GDPR, the system
 ensures that patient information remains confidential and immune to unauthorized access.
- Transparency and Explainability: The proposed AI-driven healthcare ecosystem champions transparency as
 a fundamental tenet. Algorithms employed within the system are designed with a focus on transparency,
 enabling healthcare professionals to comprehend the reasoning behind AI-generated recommendations. The
 black box nature of AI algorithms is mitigated through techniques like interpretable machine learning models
 and explainable AI, thereby fostering trust and facilitating collaboration between human practitioners and AI
 systems.
- Ethical Considerations: In the pursuit of innovation, ethical considerations must remain unwavering. The
 proposed system incorporates a robust ethical framework that underpins AI-driven decision-making processes.
 AI-generated recommendations are aligned with established medical ethics, ensuring that patient welfare is
 prioritized above all else. Additionally, mechanisms for human intervention and oversight are embedded in the
 system, enabling healthcare professionals to exercise judgment and make informed decisions based on AI
 insights.
- Collaboration and Continuous Learning: The proposed AI-driven healthcare ecosystem is designed as a collaborative endeavor, seamlessly integrating AI's computational capabilities with human expertise. Rather than replacing healthcare professionals, the system seeks to augment their skills by offering insights, facilitating diagnoses, and streamlining administrative tasks. Moreover, the system is built on a foundation of continuous learning, with AI algorithms adapting and evolving based on real-world data and feedback from healthcare practitioners. This iterative process ensures that the system remains current, accurate, and aligned with the dynamic nature of healthcare.

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• Stakeholder Involvement: The success of the proposed system hinges upon the active involvement of stakeholders spanning the healthcare spectrum. Healthcare providers, AI developers, regulatory bodies, ethicists, and patient advocacy groups collaborate to shape the system's trajectory. This collective effort ensures that the system is developed, deployed, and refined with a holistic perspective, upholding patient welfare, data privacy, and ethical principles at every step.

In conclusion, the proposed AI-driven healthcare system is more than just a technical endeavor—it embodies a visionary approach that capitalizes on AI's potential while remaining deeply rooted in ethical considerations and patient-centric care. By championing data privacy, transparency, ethics, collaboration, and continuous learning, the proposed system seeks to create an ecosystem where AI and human expertise coalesce to deliver superior patient outcomes, advance medical research, and reshape the landscape of healthcare.

VI. ANALYSIS OF LITERATURE

A thorough analysis of the current literature underscores the growing relevance of AI in healthcare. Numerous studies showcase AI's potential to achieve diagnostic accuracy that rivals or surpasses human capabilities, particularly in specialized fields such as radiology and pathology. The ability of AI-powered algorithms to analyze medical images and data points to a future where AI becomes an indispensable tool for medical professionals. However, this rapid advancement also brings to light concerns about algorithmic bias and the opacity of AI decision-making processes. Researchers are actively engaged in addressing these challenges, striving to create fair, transparent, and accountable AI systems that adhere to the highest ethical and medical standards.

VII. RESULTS AND DISCUSSION

The tangible benefits of AI integration within healthcare are becoming increasingly evident. Notable advancements include heightened diagnostic accuracy, leading to more accurate and timely interventions. Administrative workflows, too, have been streamlined through AI-driven automation, freeing up valuable time for healthcare professionals to focus on providing optimal patient care. However, a nuanced perspective is essential. The potential for errors in algorithmic decision-making, influenced by biases present in training data, poses a significant concern. Additionally, the ethical implications of relying solely on AI-generated recommendations warrant careful consideration. The collaborative partnership between human medical professionals and AI systems emerges as a crucial factor, where human expertise and empathy harmonize with AI's analytical prowess to deliver comprehensive and compassionate patient care.

VIII. CONCLUSION

The integration of Artificial Intelligence (AI) into healthcare marks a pivotal juncture in the evolution of medical science. This journey through the intersections of technology and medicine has illuminated the profound potential of AI to revolutionize healthcare outcomes, while also underscoring the intricate web of challenges that must be woven through ethical considerations, data privacy safeguards, and collaborative efforts. The symphony of opportunities and complexities that AI introduces invites healthcare stakeholders to embark on a transformative voyage that reshapes healthcare paradigms while embracing core values of compassion, ethics, and innovation.

Advancing healthcare through AI embodies the epitome of technological optimism. By augmenting medical expertise with data-driven insights, AI promises heightened diagnostic accuracy, timely interventions, and personalized treatment strategies. Patient outcomes are poised to improve as AI-driven systems not only offer rapid and precise diagnoses but also enable healthcare professionals to allocate more time for nuanced patient care. The potential to expedite drug discovery and predict therapeutic responses opens doors to new therapies that were once considered out of reach. Administrative efficiency, too, can be significantly optimized, streamlining processes and ensuring resource allocation that prioritizes patient care. These advantages, when realized, have the power to fundamentally transform patient experiences and medical research landscapes.

However, this path is not devoid of challenges. The pitfalls of algorithmic bias, the opacity of decision-making processes, and the ethical implications of AI's influence on patient care demand careful consideration. Striking the right balance between AI and human intervention, upholding patient data privacy, and ensuring that AI-generated recommendations align with established medical standards require an intricate dance. The dynamic nature of medical

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science means that AI systems must continuously evolve to remain aligned with emerging research and changing patient needs.

8.1 Opportunities of AI in Healthcare:

- Better Data Management: Managing patient data within healthcare facilities is complex, particularly given the stringent health privacy laws in place. The process of collecting and storing patient data is resourceintensive and time-consuming.
- Lowering Readmissions: AI-powered machine learning tools have the potential to reshape healthcare by
 providing clinicians with daily insights to predict which patients are at risk of readmission and how to mitigate
 this risk effectively.
- 3. **Shorten Your Stay at Hospitals (Los):**Healthcare systems can enhance patient satisfaction and cost-effectiveness by identifying patients at risk of prolonged LOS and ensuring adherence to best practices.
- 4. Patients Can Get Help Right Away: AI and machine learning development services enable patients to seek assistance using their mobile devices. This fosters trust between patients and medical staff, simultaneously alleviating the workload of busy healthcare professionals.
- 5. **Internal Communication Improvements**: Hospitals need efficient internal communication channels to facilitate seamless cooperation and ensure timely and precise healthcare delivery.
- 6. **Cost Savings**:Despite initial investment requirements, digital healthcare innovations offer long-term cost savings for both healthcare institutions and patients.
- Keeping Vital Information: Data loss during storage processes can result in information gaps. Hospitals must prioritize meticulous data collection and analysis to safeguard essential data for future research and care enhancements.
- 8. **Chatbots**: Themajority of patients research their symptoms before seeking medical help. AI-powered chatbots, developed through AI-powered chatbot development services, offer patients the autonomy to engage in self-diagnosis by conversing with AI health companions



8.2 Challenges of AI in Healthcare:

1. Patient Security: When inaccurate or incorrect data is input, the resulting decisions can be equally flawed, potentially leading to harm or even fatal consequences for the patient.

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- **2. Inadequate Data Quality**: Medical data, while invaluable, is not always inherently precise or consistent. Discrepancies, gaps, and inaccuracies within medical records and patient profiles are commonplace.
- 3. A Scattered Business Data: In the realm of healthcare, it's often the case that the challenges that can be addressed through digitalization are not immediately apparent to stakeholders and decision-makers. In order to foster greater transparency and drive necessary changes, healthcare executives should engage in comprehensive surveys, interviews, and data collection.
- **4. Budgetary Restrictions**: Within the healthcare sector, the presence of government funding introduces complexities when seeking additional investments for technological advancements.
- 5. Concerns about Privacy: The extensive data collection within healthcare often involves sensitive and confidential information. Consequently, a paramount challenge lies in maintaining stringent data privacy. To address this, it is imperative to collaborate with an AI development company that not only possesses technical expertise but also offers a spectrum of robust security measures.



In conclusion, the journey of AI in healthcare unfolds as a story of boundless potential and intricate challenges. The envisioned AI-driven healthcare ecosystem holds the promise to reshape healthcare, improve patient outcomes, and expedite medical research. The narrative must, however, be etched with the ink of ethical responsibility, data privacy safeguards, and stakeholder collaboration. As the orchestration of AI's symphony within healthcare continues, it must strike a harmonious balance, preserving the quintessential human touch that defines healthcare while embracing the transformative power of technology.

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