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| Journal Name: | Asian Journal of Current Research |
| Manuscript Number: | Ms_AJOCR_12771 |
| Title of the Manuscript: | Artificial Intelligence in Healthcare and Medicine |
| Type of the Article | |

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This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

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PART 1: Comments

| | Reviewer's comment | Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i> |
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| Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part. | This manuscript presents an extensive review of the role of artificial intelligence (AI) in healthcare and medicine. It covers critical advancements in AI applications for medical imaging, disease diagnostics, treatment planning, and predictive analytics. The discussion on AI's integration with non-image data sources, such as genetic and textual data, offers valuable insights into the future of AI-driven medical solutions. | |

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| <p>Is the title of the article suitable? (If not please suggest an alternative title)</p> | <p>The title is suitable as it clearly reflects the content of the manuscript. However, to enhance specificity, a more precise title could be: Suggested Alternative Title: <i>Advancements and Challenges of Artificial Intelligence in Healthcare and Medicine</i></p> | |
| <p>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</p> | <p>The abstract provides a broad overview of AI in healthcare, discussing its impact, challenges, and future potential. However, some points can be improved:</p> <ul style="list-style-type: none"> • The introduction of AI in medicine should be more concise instead of repeating investment statistics multiple times. • Key findings and contributions should be structured clearly, such as the impact of AI on medical imaging, non-image data sources, and healthcare accessibility. • Ethical and regulatory concerns should be briefly mentioned to provide a well-rounded summary. <ul style="list-style-type: none"> ◆ Suggested Addition: Include a final sentence that highlights the research gaps and potential areas for further study. | |
| <p>Is the manuscript scientifically, correct? Please write here.</p> | <ul style="list-style-type: none"> • The manuscript is scientifically sound, with references to relevant literature supporting its claims. • However, a more structured comparison of AI techniques versus traditional methods could enhance credibility. • Some claims (e.g., AI's superior diagnostic accuracy in dermatology and radiology) should include more quantitative evaluations or references to systematic reviews. | |
| <p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p> | <ul style="list-style-type: none"> • The manuscript cites numerous studies, including recent advancements in AI applications for healthcare. • However, some references are outdated (e.g., multiple references from 2016–2017). • Suggested Improvement: Incorporate more recent | |

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| | <p>studies (2022–2024) on AI in healthcare, particularly in deep learning for medical imaging and AI-driven clinical trials.</p> | |
| <p>Is the language/English quality of the article suitable for scholarly communications?</p> | <p>Needs Improvement:</p> <ul style="list-style-type: none"> • The manuscript contains grammatical errors and awkward sentence structures, which impact readability. • Certain sections have overly complex sentence formations, making them difficult to follow. • Some terminologies (e.g., <i>graph neural networks</i>, <i>graph transformers</i>) are used but not well-defined in the text. <p>Suggested Improvement: A professional language review is recommended to refine clarity, coherence, and readability.</p> <ul style="list-style-type: none"> • | |
| <p>Optional/General comments</p> | <ul style="list-style-type: none"> <input type="checkbox"/> Bias in AI Models: AI algorithms trained on imbalanced datasets may reinforce biases in medical decision-making, leading to disparities in healthcare outcomes. <input type="checkbox"/> Data Privacy and Security: AI relies on large datasets, raising concerns about patient confidentiality, data breaches, and compliance with privacy regulations (e.g., GDPR, HIPAA). <input type="checkbox"/> Accountability in AI Decisions: AI-based diagnostics and treatment recommendations lack clear legal responsibility. The manuscript should discuss who is accountable if an AI-driven diagnosis results in incorrect treatment. <input type="checkbox"/> Regulatory Gaps: The paper mentions AI approvals by the FDA but does not elaborate on ongoing challenges in regulatory frameworks for AI in healthcare. A section on global AI regulations would be beneficial. | |

PART 2:

| | Reviewer's comment | Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i> |
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| Are there ethical issues in this manuscript? | <i>(If yes, Kindly please write down the ethical issues here in details)</i> | |

Reviewer Details:

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|----------------------------------|--|
| Name: | Antony Pradeesh |
| Department, University & Country | KG College of Arts and Science, India |