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| Book Name: | [**New Horizons of Science, Technology and Culture**](https://bookstore.bookpi.org/product/new-horizons-of-science-technology-and-culture-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_6011** |
| Title of the Manuscript: | **Integration of Computer Science Techniques in Healthcare Management Systems: A Review** |
| Type of the Article | **Book Chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**Library Progress International, 44(3): 7190-7200, 2024.**

**DOI:** [**https://doi.org/10.48165/bapas.2024.44.2.1**](https://doi.org/10.48165/bapas.2024.44.2.1)

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **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 a timely and relevant review of how computer science techniques—such as machine learning algorithms, cloud computing, and blockchain—are being applied to improve healthcare management systems. It provides valuable insights into the integration of decision-making models for patient monitoring, diagnosis, and healthcare service optimization. The comparative analysis of commonly used algorithms across standard healthcare datasets helps reinforce the utility of AI-driven techniques in clinical and administrative environments. The paper contributes to the growing body of literature that aims to modernize healthcare through intelligent, data-driven systems, and highlights areas for further interdisciplinary research. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | The current title is **moderately suitable**, but it is generic and could be more specific. A more descriptive and technically aligned alternative title would be:  "A Comparative Review of Machine Learning and Computer Science Techniques for Optimizing Healthcare Management Systems"  This revised title better reflects the paper's focus on algorithmic comparison, healthcare data analytics, and decision support systems. |  |
| 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. | he abstract does provide a high-level overview, but it lacks clarity and contains redundant or vague expressions such as "30/40%" and "40/40%," which are confusing. Additionally, specific dataset names and algorithms should be briefly mentioned in the abstract to improve its informativeness.  **Suggestions:**   * Clarify the performance improvement metrics with exact references or remove them if not backed by evidence. * Replace terms like "impressive improvement" with quantifiable results. * Include a brief mention of the datasets used (e.g., Pima Indians Diabetes, Breast Cancer Wisconsin) and key algorithms (e.g., Neural Networks, SVM). * Streamline grammar and structure to enhance readability. |  |
| **Is the manuscript scientifically, correct? Please write here.** | he manuscript is **generally sound** in terms of scientific content, but a few concerns need addressing:   * The comparative analysis is based on standard datasets without deep justification of model tuning or dataset suitability across domains. * There is a lack of detail regarding hyperparameter optimization and statistical validation. * Claims made in the introduction and abstract (e.g., blockchain impact, 40% improvement) are not directly supported in the experimental results. * Integration of emerging technologies like blockchain and IoT is discussed in theory but not empirically validated.   **Recommendation:** Consider improving methodological rigor, clarifying experimental assumptions, and aligning claims with evidence. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | The references are generally **recent and relevant**, covering works from 2020–2024, and represent a range of international contributions in the domain of AI and healthcare. However:   * Some key works on healthcare informatics frameworks, federated learning in clinical settings, or edge-AI in IoT-assisted monitoring are missing. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The manuscript **requires moderate language editing**. There are several instances of:   * Grammatical inconsistencies * Repetitions (e.g., duplicated pseudocode blocks) * Informal phrasing * Sentence structure errors   A comprehensive language and copy-editing review is needed to ensure clarity, flow, and scholarly tone. Removal of redundant code blocks and reformatting of figures/tables will also enhance readability. |  |
| Optional/General comments |  |  |

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| **PART 2:** | | |
|  | Reviewer’s comment | Author’s comment *(if agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in detail)*  *NO* |  |

**Reviewer details:**

**Abubeker K M, India**