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| Journal Name: | [**Asian Journal of Probability and Statistics**](https://journalajpas.com/index.php/AJPAS) |
| Manuscript Number: | **Ms\_AJPAS\_137633** |
| Title of the Manuscript: | **Predictive Analytics in Healthcare Diagnosis and Medical Decision-Making using Machine Learning** |
| Type of the Article | **Original Research Article** |

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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** (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 touches a burning topic: the practice of machine learning in healthcare. Healthcare systems globally are striving for personalized care, more efficient, and smarter. This kind of research fills an essential knowledge gap. The manuscript doesn’t talk about not only the technical side of predictive analytics but also dives into how these models affect real- world clinical decisions, patient engagement, and even ethics. That’s why this endeavor is a  wide net, and a useful one. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | The title is good and informative, and appropriate. |  |
| **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.** | The abstract is well structured and along with solid overview, but it is a bit compressed. I would like to recommend simplifying a few phrases for clarity, if possible. For example, instead of saying *“Specifically, the research implements ML methods for prognostic evaluation…”* May say *“This study uses ML to evaluate prognosis in cardiovascular disease.”* |  |
| **Is the manuscript scientifically, correct? Please write here.** | The paper is based on solid research. It covers a broad range from algorithm types to data sources, and also touches ethical concerns perfectly. Maybe pick one or two application areas,  like cardiovascular diagnosis and patient preference modeling, and explore them in more depth? That would make the findings more impactful. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | Most references are relevant and recent, which is great. |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | The language is mostly okay. |  |
| **Optional/General** comments |  |  |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s Feedback** (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 details)* |  |

**Reviewer details:**

**Mohammad Amir Hossain, Bangladesh**