

Review Form 3

Journal Name:	Asian Journal of Cardiology Research
Manuscript Number:	Ms_AJCR_128065
Title of the Manuscript:	Application of Artificial Intelligence Techniques for Heart Disease Prediction System
Type of the Article	Original Research Article

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>
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.	Overall Score: Excellent The topic selected for this article holds significant global relevance, focusing on a critical issue that is expected to draw the interest of researchers across various disciplines. By examining this key area, the article aims to contribute to a deeper understanding of the subject, providing valuable insights that can shape ongoing research. Furthermore, this type of research offers practical applications for healthcare professionals, equipping them with evidence-based knowledge that can support more informed clinical decisions. In doing so, it has the potential to enhance patient care and improve health outcomes on both an individual and systemic level.	
Is the title of the article suitable? (If not please suggest an alternative title)	Overall Score: Good The title of the article is clear and straightforward, providing readers with an immediate understanding of what to expect from the content. Its simplicity ensures that the topic is easily accessible, while effectively conveying the core focus of the article. This self-explanatory nature of the title makes it easy for readers to quickly grasp the subject matter, setting clear expectations for the insights and information that will follow.	

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<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>Overall Score: Needs minor corrections An abstract should contain a background on what is the motivation for this study, main objective, summary of the research methods, key findings and significance of the findings. Though most of the points are summarized in the provided abstract, it would be better to start with the background/introduction "Healthcare is an important sector which needs continued modernization with technology-based state-of-the-art system" and then talk about the focus of this paper. In the findings part, it is better to give an overall summary of the findings rather than giving the exact findings with the accuracy and Recall % as a lot of readers might not exactly know these AI techniques "CatBoost and LGBM were outperformers with accuracy scores of 95.65% and 96.74% respectively for 90:10 train-test split. Also, Recall scores of both models were very high (i.e., 95.6% and 96.82% respectively in 90:10 train-test." Lastly, the significance section of the abstract can be elaborated to explain how this research will help with better health prediction. Also, please correct all grammatical errors and spelling mistakes in the abstract.</p>	
<p>Is the manuscript scientifically, correct? Please write here.</p>	<p>Overall Score: Good The research methods employed in the article appear both valid and highly relevant to the topic under discussion. The application of artificial intelligence (AI) in assisting healthcare professionals is particularly significant, especially given the growing body of research in this area. AI's potential to enhance clinical decision-making is an important focus, and the article effectively addresses this issue. Furthermore, there seem to be no apparent issues with the data used or the methodology followed, which are both robust and well-suited to the objectives of the study. The alignment between the research methods and the topic ensures the findings are credible and applicable to the ongoing developments in healthcare technology.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>Overall Score: Need minor corrections The list of references provided in the article is sufficient. The only correction would be to number the references in the reference paragraph as [1],[2] etc and add this reference number [1], [2] in the place where this reference is cited which is the standard method to cite any reference to other articles or papers. Example: Number [1] for the first reference in your reference paragraph - Mohan, S., Thirumalai, C., & Srivastava, G. (2019). Effective heart disease prediction using hybrid machine learning techniques. IEEE Access 7, 81542–81554. In the Introduction paragraph, instead of writing" (Mohan, Thirumalai, & Srivastava, 2019) used hybrid machine learning techniques", You can say "A study done in 2019[1] used hybrid machine learning techniques to predict heart disease and obtained 88.7% accuracy from hybrid random forest with a linear model." This way if the readers need to look for more information, they know that this reference is available with the corresponding reference number in the reference paragraph.</p>	
<p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>Overall Score: Needs Minor corrections The overall usage of English used is good, there are few grammatical errors and spelling mistakes that the document should be checked for.</p>	
<p><u>Optional/General</u> comments</p>	<p>Overall, the paper is excellently written, presenting a clear and engaging discussion on a highly relevant topic. The subject matter is both timely and compelling, offering valuable insights that are likely to capture the interest of a wide range of readers. The writing is well-organized and accessible, making complex ideas easy to follow while maintaining academic rigor. Given the significance of the topic and the clarity of the presentation, the paper is poised to resonate with scholars, healthcare professionals, and anyone interested in advancements in the field.</p>	

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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>
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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