

# Review of: "Implementing Machine Learning to predict the 10-year risk of Cardiovascular Disease"

Abdur Rasool<sup>1</sup>

<sup>1</sup> Shenzhen Institutes of Advanced Technology - Chinese Academy of Sciences

**Potential competing interests:** No potential competing interests to declare.

## Comments

The authors presented a comparative analysis of the benchmark machine learning algorithm ML applied to the heart disease dataset. The authors provided the code online, which shows the ML performance integrity. The topic is also interesting; however, the novelty is missed. Concerning the Journal's rank and reputation, this work can be published as a small contribution if the authors can revise their manuscript with the following suggestions and comments.

## Reviews

1. The proposed work and title have significant conflicts. The title says '10-year risk' while the proposed work is only based on the evaluation of ML algorithms on one dataset.
2. Various studies offer ML comparisons on Heart disease datasets. What is the unique difference between proposed work and existing ones?
3. The manuscript is thoroughly wordy. Revise it concisely and coherently.
4. Table captions are often on the top of the Table. Add references [], dataset information, and utilized method in Table 2.
5. All Figures are bluer, improve the quality.
6. If it's convenient, evaluate the performance on another benchmark dataset as well, given in <https://doi.org/10.1145/3383972.3384061>.
7. In experiments, authors should mention the system environment. Additionally, perform the comparisons with recent studies, such as <https://doi.org/10.3390/ijerph18063187>.
8. There are various formatting issues that must be fixed before publication.
9. English writing needs to be extensively revised. Provide the appropriate acronyms and keep the content coherent and consistent.

## Decision: Major Revision