

Peer Review

Review of: "Chronic disease treatment default prediction, potential benefits with applied random sampling optimization techniques"

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This study evaluates random sampling techniques, including over-sampling, under-sampling, and SMOTE, for addressing class imbalance in datasets, highlighting their impact on model performance, particularly in binary and multi-class classification problems. However, this work lacks in the following aspects:

1. The introduction should explicitly outline the research goal and address how this study resolves the identified research gap. Additionally, the introduction should briefly summarize the contents of the subsequent sections.
2. Figures lack adequate explanation and require more detailed clarifications.
3. The dataset used is not described, and the data pre-processing steps are not sufficiently described.
4. The flowchart provided needs a thorough explanation.
5. The methods section is vague and difficult to comprehend, necessitating better organization and clarity.
6. The novelty of the work is not well established, and its practical implications need to be clearly highlighted.
7. Both the discussion and conclusion sections require significant revisions.
8. The related work section should include more recent literature citations to strengthen the context.

9. Overall, the writing lacks coherence and needs substantial modifications to improve flow and readability.

Declarations

Potential competing interests: No potential competing interests to declare.