

Review of: "Chronic disease treatment default prediction with random sampling optimization."

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Potential competing interests: No potential competing interests to declare.

Authors used over and under-sampling techniques to address class imbalance problems. They used well-known machine learning approaches such as extreme gradient boosting, gradient boosting, random forest, support vector machines, and logistic regression for comparison. This is a sort of comparison of existing machine-learning approaches. No new concept has been proposed. Here are few more comments to improve the work:

1. No full stop is needed at the end of the title of the paper.
2. The abstract can be short and more to the point.
3. Sections 1 and 2 can be combined along with one paragraph should be added to brief about the upcoming sections.
4. In Section 2, authors are simply reciting other works without any takeaway points and criticizing the work. It would be better to add some analysis, observation, and limitations along with it. And write down your contribution to address any of these questions/challenges. This will be more impressive and create a foundation to communicate your work.
5. In section 3, the method is not clear, better to add an algorithm and block diagram to represent your approach. Also mathematical foundation is missing.
6. No dataset descriptions have been provided.
7. Subsection 2.3 supervised learning types should be introduced in section 1 along with fig. 1.
8. Results and analysis should be more concise with proper reasoning instead of simply reciting it.
9. Overall this article requires a lot of improvement before being considered for publication.