

# Review of: "Bank Customer Churn Prediction Using SMOTE: A Comparative Analysis"

Aleksey Mints<sup>1</sup>

<sup>1</sup> Pryazovskyi State Technical University

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

Overall, I positively assess the article. The results will be useful to everyone working with data, as they expand knowledge about the applicability of various data science methods.

The mention of GA (Genetic Algorithm) in the context of this study is somewhat unclear. The author only states that the algorithm was used, but information on the results of its application is completely absent. Which features were removed? What was the classification performance before and after applying GA? In my opinion, including this algorithm in the methodology of this study is unjustified. Moreover, based on my own experience, parameter selection using GA on large datasets is often needed not so much to improve classification quality, but to simplify subsequent data processing. Additionally, besides SMOTE, there are other oversampling techniques: ADASYN, SMOTE + Tomek, SMOTE + ENN. These should have been mentioned at least in the concluding part of the article, in the section "Conclusion and Future Work."

I believe these shortcomings could have been avoided if the article had clearly formulated goals and objectives. In this, I agree with other reviewers.