

# Review of: "FLAML-Boosted XGBoost Model for Autism Diagnosis: A Comprehensive Performance Evaluation"

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

- The abstract could provide more context regarding the significance or impact of addressing imbalanced classification in autism diagnosis. Why is this an important challenge to tackle?
- It would be beneficial to briefly mention the dataset used and its characteristics, as well as any preprocessing or feature engineering steps taken.
- While the abstract mentions the metrics used for evaluation, it does not provide specific results or interpretations of these metrics. Adding some insights or comparisons with existing methods could strengthen the abstract.
- The introduction could provide more specific details about the dataset used in the study, such as the source, size, and characteristics of the data. This would enhance the readers' understanding of the context in which the model is applied.
- While the introduction mentions the various evaluation metrics used, it does not provide specific expectations or hypotheses regarding the model's performance. Including some discussion on expected outcomes or comparisons with existing approaches would strengthen the introduction.

The conclusion would benefit from explicitly mentioning the potential comparisons with other algorithms or approaches commonly used in autism diagnosis. This would add further context and highlight the advantages of the FLAML-boosted XGBoost model.

- Including specific examples or case studies where the FLAML-boosted XGBoost model outperforms other algorithms or demonstrates its advantages in real-world scenarios would strengthen the conclusion and reinforce the practical implications of the study.
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