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

Haomin Chen[1]

1 Johns Hopkins University

Potential competing interests: No potential competing interests to declare.

My decision is major revision.

This article utilizes FLAML and XGboost for Autism Diagnosis. They solves the imbalance problem by over sample data from minor classes. The article is well structured and easy to read.

Advantages:

1. The paper uses well established library for model establishment and experiments

Disadvantages:

1. Lack of novelty: The XGboost and techniques solving imbalance problem by over sampling has already been widely used by AI researches in medical, such as [1,2].
2. Result not comparable: The author does not include performance of previous works for comparison.

Comments:

1. Numbers in Figure 3 is hard to read. Please increase the resolution of the figure.

[1] Khushi, Matloob, et al. "A comparative performance analysis of data resampling methods on imbalance medical data." *IEEE Access* 9 (2021): 109960-109975.

[2] Reza, Md Shamim, and Jinwen Ma. "Imbalanced histopathological breast cancer image classification with convolutional neural network." *2018 14th IEEE International Conference on Signal Processing (ICSP)* IEEE, 2018.