

# 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 methodology section lacks the necessary details to reproduce the experimental setup. Important parameters and hyperparameter tuning steps for the FLAML-Boosted XGBoost model are vaguely mentioned. Readers need a clearer understanding of the steps taken to ensure the validity of the results.

The paper lacks a comprehensive analysis of feature importance and model interpretability. Readers require insight into which features contribute most to the model's decisions and how these align with existing clinical knowledge. Clear explanations are essential for building trust in the model's diagnostic capabilities.

The evaluation lacks a thorough comparison with existing state-of-the-art models or diagnostic methods.

A comprehensive performance evaluation should include a broader range of demographic groups and data sources to ensure the model's effectiveness across different populations.