

Peer Review

Review of: "Predicting Antidepressant Use in Patients with Bipolar Disorder"

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1. Clearly define the practical implications of the study. How can the findings influence clinical decisions or antidepressant prescribing practices?
2. A sample size of 20 participants is relatively small. Discussing plans to validate findings with a larger and more diverse population could strengthen the study's reliability.
3. While the RF model achieved 67% accuracy, the NN model underperformed (50%). Provide a detailed discussion on why the neural network model underperformed (50% accuracy) compared to the random forest model and how future studies might improve its performance.
4. Adding visual aids like feature importance graphs, confusion matrices, or ROC curves for the machine learning models would make the results more accessible and engaging.
5. Relating the findings to previous research on antidepressant use and bipolar disorder would strengthen the discussion and contextualize the results.

Declarations

Potential competing interests: No potential competing interests to declare.