Review of: "A Simple Preprocessing Method Enhances Machine Learning Application to EEG Data for Differential Diagnosis of Autism"

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Potential competing interests: No potential competing interests to declare.

1. How does the proposed preprocessing method compare to existing methods in terms of computational efficiency and accuracy in distinguishing between ASD and NPD subjects?
2. Can the authors provide more details on the selection criteria for the EEG data used in the study to ensure the representativeness of the sample?
3. Have the authors considered potential confounding variables or biases in the data collection process that could impact the generalizability of the results?
4. Could the authors elaborate on the interpretability of the machine learning model used in the study and how the identified EEG features contribute to the classification of subjects?
5. What steps were taken to validate the robustness and reliability of the machine learning model in differentiating between ASD and NPD subjects, especially in real-world clinical settings?
6. Have the authors discussed the potential limitations of their study, such as sample size, data quality, or the generalizability of the findings to diverse populations?
7. How do the results of this study contribute to the existing literature on EEG-based classification of neurodevelopmental disorders, and what future research directions do the authors suggest based on their findings?
8. Can the authors provide insights into the practical implications of their research for clinicians and researchers working in the field of autism diagnosis and treatment?
9. Have the authors considered the ethical implications of using machine learning algorithms in clinical decision-making, particularly in the context of neurodevelopmental disorders like ASD?
10. How do the findings of this study align with current best practices in EEG data analysis and machine learning applications for healthcare, and what recommendations do the authors propose for further advancements in this area?