# Review of: "An Improved Hybrid Transfer Learning-Based Deep Learning Model for Alzheimer's Disease Detection Using CT and MRI Scans"

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

The abstract on Alzheimer's disease detection using deep learning models is a commendable effort to address a pressing health issue. The use of transfer learning and various neural network architectures is a promising approach. However, more details on the dataset and the specific techniques employed could improve clarity.

The introduction provides a comprehensive overview of Alzheimer's disease, its global impact, and the need for early detection. It effectively sets the stage for the research. However, mentioning the dataset details and specific deep learning techniques at this stage would enhance the introduction.

The literature review explores the role of machine learning in AD research and presents a list of relevant studies. While the information is valuable, organizing it into themes or categories and highlighting the key findings from each study could improve readability.

The study's conclusion is well-structured, summarizing the achievements and proposing future research directions. Adding more specific details about underfitting, overfitting, and comparisons between models would enhance the conclusion.

In the feedback on the conclusion, specific recommendations for improvement were provided, including elaborating on performance metrics and detailing strategies to address underfitting and overfitting. The feedback emphasizes the importance of providing quantitative results and insights in the conclusion.