

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 experimental study is interesting information in this paper. However, the main weakness of the paper lies in its lack of originality, clarity, and novelty. The following suggestions may be considered to enhance the quality and clarity of the manuscript.

1. Abstract is comprehensive and well written, but it needs improvements e.g. case study can be described a little more at the end of the paragraph.
2. The motivation is not clear. Why did this work? Is any problem does it address that the previous methods cannot?
3. The motivation section is very general, make it specific by adding a separate paragraph and discussing the techniques you have used mainly.
4. In the literature review, existing studies can also be summarized in a tabular form to improve readability also mention the limitations of the existing techniques in the table.
5. The dataset used can be summarized in a table format
6. How to deal with overfitting in your model?
7. The best results should be bolded in the tables
8. Similarly, the network configurations can be summarized in a table e.g. input size, # of layers, learning rate, optimizers etc.
9. Most of the references are outdated it should be replaced with state-of-the-art deep learning papers.

- <https://www.sciencedirect.com/science/article/pii/S0957417422024940>
- <https://www.sciencedirect.com/science/article/pii/S0020025522007332>
- <https://www.nature.com/articles/s41598-023-36311-0>

1. Images are not clearly visible in the print form. Please improve the resolution of each image.
2. The caption of each figure is not well explained. Please improve it.
3. add new section under title the hypothesis and limitations of the develop method present by author(s)
4. In addition to these specific recommendations, the authors should also run the manuscript through a grammar checker like Grammarly to address any language or grammatical errors. Finally, the authors should ensure that all references cited in the manuscript are up-to-date and relevant to the research topic.

