

# 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.

Thanks for presenting the paper. Please consider the below remarks:

Shortcomings:

1. There is a lack of novelty i.e., only applying the existing model on existing data is not a significant contribution.
2. Lack of results comparison with existing studies i.e., on similar dataset or DL models
3. Poor image quality observed i.e., figure 2

Suggestions:

1. You may use these DL models but consider hyperparameters tuning and see if you can improve the loss from 0.2 to more below
2. Try to add some layers before final classification layer in DL model i.e., VGGNet and see if there is any improvement in accuracy / loss. Since, the showed accuracy is existing one without any contribution. Your goal should be to improve this, it could be a little but you have to consider.
3. You can also apply some other data augmentation techniques i.e., GAN with addition to compare which data enhancement techniques work better on high accuracy model for AD MRI scans data i.e., geometric transformation approaches or GAN.
4. You have to revise all of your image. Please use a good tool such as Adobe Photoshop, CorelDraw for the image drawing.