

**A Framework for Developing an Enhanced Convolutional Neural
Network-Based Ensemble Learning Model for Alzheimer's
Disease Classification Using MRI Brain Images**

By

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80_Recommendations

The study can be extended to include the following:

- An automated model for the feature extraction as well as multilevel classification using DL concepts can be considered to classify AD.
- The cloud architecture can be considered for proposing DL models.
- The hyper-parameters in the CNN model can be tuned by introducing hybrid optimization algorithms.
- Deep neural network architectures with hybrid combinations can be explored like Multilayer Perceptrons (MLPs), Deep belief networks, AE and Restricted Boltzmann Machines (RBMs).
- Further, studies using various kinds of image modalities such as CT and PET scans can be considered for constricting a model for AD classification.