

# An Assessment of Algorithms Utilizing Machine Learning to Classify the Various Stages of Alzheimer's Disease

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**Abstract:** *Alzheimer's disease (AD) is a chronic, irreversible illness that causes shrinking of the brain, impairing memory and causing cognitive impairment. Many medical professions make extensive use of machine learning methods. The proper classification of Alzheimer's disease has been the subject of several investigations. Using a variety of machine learning approaches, we have evaluated several papers written by different researchers to provide readers a more thorough picture of the research being done on Alzheimer's disease. The only purpose of this is to assess more sensible and efficient learning approaches for the categorization of Alzheimer's disease. Deep Learning (DL), Support Vector Machines (SVM), and Artificial Neural Networks (ANN) are the three primary machine learning approaches examined.*

**Keywords:** Alzheimer's Disease, Support Vector Machine

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