



ISSN NO. 2320-5407

ISSN(O): 2320-5407 | ISSN(P): 3107-4928

International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

www.journalijar.com

REVIEWER'S REPORT

Manuscript No.:IJAR-56521

Title: Disease Prediction Using Artificial Intelligence Techniques: A Comprehensive Review of Alzheimer's Disease Detection.

Recommendation:

- Accept as it is
- Accept after minor revision Yes**
- Accept after major revision
- Do not accept (*Reasons below*).....

Rating	Excel.	Good	Fair	Poor
Originality		yes		
Techn. Quality		yes		
Clarity		yes		
Significance		yes		

Reviewer's Name – Dr. Bharti Bisht

Detailed Reviewer's Report

The manuscript titled “Disease Prediction Using Artificial Intelligence Techniques: A Comprehensive Review of Alzheimer’s Disease Detection” provides an extensive overview of artificial intelligence–based techniques applied to the early detection and diagnosis of Alzheimer’s disease. The paper clearly explains the significance of early diagnosis due to the progressive nature of the disease and highlights how artificial intelligence, particularly machine learning and deep learning approaches, can support more accurate and accessible diagnostic systems. The authors present a structured discussion of various AI methods such as Support Vector Machines, Random Forest, Gradient Boosting, Convolutional Neural Networks, ResNet-based transfer learning models, Siamese networks, and ensemble frameworks, while also examining multiple data modalities including neuroimaging, clinical data, handwriting analysis, and speech-based biomarkers. The manuscript effectively summarizes recent research findings and provides a comparative evaluation of model performance using common evaluation metrics such as accuracy, precision, recall, F1-score, and AUC-ROC. In addition, the paper identifies important challenges in the field including data scarcity, class imbalance, overfitting, limited generalizability, and issues related to clinical deployment. While the topic is relevant and the review covers recent literature, the manuscript requires several improvements before publication. The abstract contains a noticeable inconsistency at the beginning where the sentence refers to “solid waste management,” which appears unrelated to the research topic and should be corrected. Some grammatical errors, formatting inconsistencies, and repetitive explanations are also present throughout the manuscript. Furthermore, the review would benefit from stronger critical analysis rather than primarily summarizing previous studies, and clearer discussion on how different AI models compare in practical clinical settings. The authors should also improve the coherence between sections and ensure proper referencing and citation formatting. Overall, the paper addresses an important research area in healthcare and artificial intelligence, but it requires minor to moderate revisions in language clarity, consistency, and analytical depth to enhance its academic quality and readability.