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Abstract

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- IV. Dataset Sources
- V. Measurement Matrices

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Parkinson disease is a neuro generative disorder where patient would be inactive, rigid and have shaky voice due to loss of dopamine production in the brain cell. It is useful for society to detect disease early. Some traditional methods are introduced to do that job. Recently ML algorithms are also used to do the same. Those methods are facing some difficulty like high latency and low accuracy. Our focus is to overcome these problems. We have introduced PredParkinson-MLP to predict parkinson disease along with time estimation. Our dataset consists of 31 people, with 23 positive parkinson disease cases. Performance of our model is compared with other ML algorithms like Decision tree, XGBoost, and SVM. Various performance measurement metrics (Accuracy, Precision, Recall, and f1 score) are used to prove enhancement of our model. According to the outcome, our suggested technique beats other existing techniques in terms of accuracy (97.43 %) and precision (96.96 %).

Published in: [2025 International Conference on Machine Learning and Autonomous Systems \(ICMLAS\)](#)

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I. Introduction

In this modern era, human are trying to incorporate machine mostly computer for all aspects of their life. They want to make easy all types of jobs using artificial intelligence specially machine intelligence. As improvement comes in their life much more problems are also generated. In present scenario patients of PD faces various difficulty to live their life [1]. They may face: 1.

body balance issue named postural instability,

2. slow movement called bradykinesia,

3. stiffness of arms, necks, or legs etc.

4. listening problem.

5. no proper food intake [2].

6. rigidity or stiffness of the arms, legs, or neck.

7. balance issues.

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