# Prediction of Parkinson’s Disease Using Machine Learning

ABSTRACT

* **Parkinson's disease is a neurodegenerative disorder that affects the dopamine-producing neurons in the brain. It leads to Motor and Non-motor symptoms.**
* **Approximately 10 million people worldwide are living with Parkinson's disease. Advancements in research and new treatments offer hope for patients with Parkinson's disease.**
* **Developing effective strategies for early detection, accurate diagnosis, and personalized treatment of Parkinson's disease is required to improve the quality of life for patients.**
* **Machine learning therefore have the potential to provide clinicians with additional tools to screen, detect or diagnose Parkinson's disease in an early stage.**
* **Machine learning techniques can be leveraged to predict treatment response and side effects,enabling personalized therapeutic approaches for Parkinson's disease patients.**
* **Machine learning-driven analysis allows for the identification of novel biomarkers that may aid in tracking disease progression and evaluating treatment efficacy.**

**Keywords:**

**Parkinson's disease, Neurodegenerative disorder, Machine learning.**