Detecting Parkinson’s Disease using Machine Learning

PROBLEM STATEMENT

The main aim is to predict the prediction efficiency that would be beneficial for the patients who are suffering from Parkinson and the percentage of the disease will be reduced.

Generally in the first stage, Parkinson's can be cured by the proper treatmentSo it‘s important to identify the PD at the early stage for the betterment of the patients. The main purpose of this research work is to find the best prediction model i.e. the best machine learning technique which will distinguish the Parkinson’s patient from the healthy person.

The techniques used in this problem are KNN, Naïve Bayes, and Logistic Regression.

The experimental study is performed on the voice dataset of Parkinson’s patients which is downloaded from Kaggle. The
prediction is evaluated using evaluation metrics like confusion matrix, precision, recall accuracy, and f1-score. The author used feature selection where the important features are taken into consideration to detect Parkinson’s.