NITTE EDUCATION TRUST | NMAM INSTITUTE OF TECHNOLOGY

(An Autonomous Institution affiliated to VTU, Belagavi)

MACHINE LEARNING SYNOPSIS – 19CS605

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Parkinson disease onset detection

PROBLEM STATEMENT:

Parkinson Disease is a brain neurological disorder. It leads to shaking of the body, hands and provides stiffness to the body. No proper cure or treatment is available yet at the advanced stage. Treatment is possible only when done at the early or onset of the disease. This project is all about predicting the diagnosis of a Parkinson disorder and also to predict the person is healthy or suffering Parkinson disorder based on several observations/features.

ABSTRACT :

The Parkinson's disease is progressive neuro degenerative disorder that affects a lot only people significantly affecting their quality of life. It mostly affect the motor functions of human. The main motor symptoms are called "parkinsonism". Machine learning techniques can bring a large contribute on the process of prediction and early diagnosis of parkinso disorder, became a research hotspot and has been proved as a strong technique. In this project, The main objective of this project is to understand what is Parkinson's disease and to detect the early onset of the disease. We will use hereK NN Algorithm, Support Vector Machines (SVMs), Random Forest Algorithm .All the work is done in the Anaconda environment based on python programming language and Scikit-learn library.