AI & ML Video Assignment

5th October 2020

Human Activity Recognition using Smartphone Data

Using Hidden Markov Model, classify Human Activity using the smartphone generated data given by the following dataset:

https://www.kaggle.com/uciml/human-activity-recognition-with-smartphones.

Implement the classification by:
a) Using PCA to compress the data to 100 features.
b) Using the first 100 features of the dataset.

Classify only for the following categories: STANDING, LAYING, SITTING, WALKING. You can choose values of other hyper parameters as per your choice.