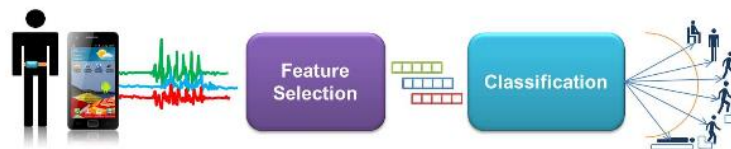# Human Activity Recognition Using Smartphones

Objective

To model a highly accurate classifier to recognize the human activity based on the data from the sensors on the Smartphones.

Dataset

Source data from UCI Machine Learning Repository:
http://archive.ics.uci.edu/ml/datasets/Human+Activity+Recognition+Using+Smartphones
The experiments have been carried out with a group of 30 volunteers within age brackets 19-48 years. The data is being captured using embedded accelerometer and gyroscope. The experiments have been video recorded to label the data manually.

Approach

Classification and Clustering using different Machine Learning approaches like Multinomial Logistic Regression and Support Vector Machines.

Deliverables

The expected result will be to classify with high accuracy among the 6 activities i.e., Walking, Walking_Upstairs, Walking_Downstairs, Sitting, Standing, Laying

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