**Human Activity Recognition Using Smartphones Data Set**

1. **Introduction.**

**1.1 Background.**

Human Activity Recognition Using Smartphones Data Set is a project to calculate a model by which a smartphone can detect its owner’s activity precisely. For the dataset, 30 people were used to perform 6 different activities. Each of them was wearing a Samsung Galaxy SII on their waist. Using the smartphone’s embedded sensors (the accelerometer and the gyroscope), the user’s speed and acceleration were measured in 3-axial directions. The sensor’s data is used to predict user’s activity.

* 1. **Description of the Problem.**

The problem is to predict the human’s activity category precisely. Predicting the human activities like walking, walking upstairs, walking downstairs, sitting, standing and Laying by using the smartphone’s sensors.

* 1. **Interests.**

Obviously, Every Human being including Students, Sportsperson, Doctors, Patients, Engineers, Scientists etc. would be very much interested in accurate prediction of their activities, for maintaining good health and fitness.