**Smartphone-Based Recognition of Human Activities and Postural Transitions Data Set:**

**URL of the Suggested Trained and test Data**

<http://archive.ics.uci.edu/ml/machine-learning-databases/00341/HAPT%20Data%20Set.zip>

1. We have to download this data
2. Extract the data in the folder name : UCI HAR Dataset
3. Read the - Readme.txt file carefully
4. Read data features <-features.txt – 561 rows and 2 columns
5. Read data activities <-activity\_labels.txt – 6 rows and 2 columns
6. Read data subject\_test <-subject\_test.txt - 2947 rows and only one column
7. Read data x\_test <-x\_test.txt - 2947 rows and 561 column
8. Read data y\_test <-y\_test.txt - 2947 rows and only one column
9. Read data subject\_train <-subject\_train.txt - 7352 rows
10. Read data x\_train <-x\_train.txt - 7352 rows and 561 column
11. Read data y\_train <-y\_train.txt - 7352 rows
12. Also add name to column names to all while reading the data
13. Subject <- subject \_train + Subject\_test data merged Total - 2947+7352 = 10299 Rows one column
14. X <- x\_train and x\_test data merged – Total - 2947+7352 = 10299 Rows and 561 Column
15. Y <- y\_train and y\_test data merged – Total - 2947+7352 = 10299 Rows and one Column
16. All Merged data <- subject , X and Y Total Rows 10299 and Column : 563
17. **Extracts only the measurements on the mean and standard deviation for each measurement**

Extract data of Subject , code and which contains Mean and std – total rows 10299 and 88 coulmns

1. **Uses descriptive activity names to name the activities in the data set**

**Code replace with Activities Rows: 10299, Col: 88**

1. Appropriately labels the data set with descriptive variable names

**Some Labels are changed : mean() - Mean, std() – STD, freq() – Frequency ..**

1. **From the data set , creates a second, independent tidy data set with the average of each variable for each activity and each subject**
2. **Finally data written a file. Row : 180 and Col: 88**