

Activity Dataset CodeBook

Files used to get the tidy data set grouped by activity and subject are,

- activity_labels.txt
- features.txt
- features_info.txt
- README.txt
- /train/subject_train.txt
- /train/X_train.txt
- /train/Y_train.txt
- /test/subject_test.txt
- /train/X_test.txt
- /train/Y_test.txt

The final dataset contains 1 file tidyData.txt with 180 observations and 88 variables.

Explanation about the analysis process can be found in detail in README file. Below is the description of the variables found in the data set,

Activity

Activity Column consists of the following values,

- WALKING
- WALKING_UPSTAIRS
- WALKING_DOWNSTAIRS
- SITTING
- STANDING
- LAYING

Subject

Subject column identifies the 30 subjects used in the data collection, these are numerical values from 1 through 30

The following are the measurement variables

- timeDomainBodyAccelerometerMeanX
- timeDomainBodyAccelerometerMeanY
- timeDomainBodyAccelerometerMeanZ
- timeDomainBodyAccelerometerStandardDeviationX
- timeDomainBodyAccelerometerStandardDeviationY
- timeDomainBodyAccelerometerStandardDeviationZ
- timeDomainGravityAccelerometerMeanX
- timeDomainGravityAccelerometerMeanY
- timeDomainGravityAccelerometerMeanZ
- timeDomainGravityAccelerometerStandardDeviationX
- timeDomainGravityAccelerometerStandardDeviationY
- timeDomainGravityAccelerometerStandardDeviationZ
- timeDomainBodyAccelerometerJerkMeanX
- timeDomainBodyAccelerometerJerkMeanY
- timeDomainBodyAccelerometerJerkMeanZ
- timeDomainBodyAccelerometerJerkStandardDeviationX
- timeDomainBodyAccelerometerJerkStandardDeviationY
- timeDomainBodyAccelerometerJerkStandardDeviationZ
- timeDomainBodyGyroMeanX
- timeDomainBodyGyroMeanY
- timeDomainBodyGyroMeanZ
- timeDomainBodyGyroStandardDeviationX
- timeDomainBodyGyroStandardDeviationY
- timeDomainBodyGyroStandardDeviationZ
- timeDomainBodyGyroJerkMeanX
- timeDomainBodyGyroJerkMeanY
- timeDomainBodyGyroJerkMeanZ
- timeDomainBodyGyroJerkStandardDeviationX
- timeDomainBodyGyroJerkStandardDeviationY
- timeDomainBodyGyroJerkStandardDeviationZ
- timeDomainBodyAccelerometerMagnitudeMean
- timeDomainBodyAccelerometerMagnitudeStandardDeviation
- timeDomainGravityAccelerometerMagnitudeMean
- timeDomainGravityAccelerometerMagnitudeStandardDeviation
- timeDomainBodyAccelerometerJerkMagnitudeMean
- timeDomainBodyAccelerometerJerkMagnitudeStandardDeviation
- timeDomainBodyGyroMagnitudeMean
- timeDomainBodyGyroMagnitudeStandardDeviation

- timeDomainBodyGyroJerkMagnitudeMean
- timeDomainBodyGyroJerkMagnitudeStandardDeviation
- frequencyDomainBodyAccelerometerMeanX
- frequencyDomainBodyAccelerometerMeanY
- frequencyDomainBodyAccelerometerMeanZ
- frequencyDomainBodyAccelerometerStandardDeviationX
- frequencyDomainBodyAccelerometerStandardDeviationY
- frequencyDomainBodyAccelerometerStandardDeviationZ
- frequencyDomainBodyAccelerometerMeanFreqX
- frequencyDomainBodyAccelerometerMeanFreqY
- frequencyDomainBodyAccelerometerMeanFreqZ
- frequencyDomainBodyAccelerometerJerkMeanX
- frequencyDomainBodyAccelerometerJerkMeanY
- frequencyDomainBodyAccelerometerJerkMeanZ
- frequencyDomainBodyAccelerometerJerkStandardDeviationX
- frequencyDomainBodyAccelerometerJerkStandardDeviationY
- frequencyDomainBodyAccelerometerJerkStandardDeviationZ
- frequencyDomainBodyAccelerometerJerkMeanFreqX
- frequencyDomainBodyAccelerometerJerkMeanFreqY
- frequencyDomainBodyAccelerometerJerkMeanFreqZ
- frequencyDomainBodyGyroMeanX
- frequencyDomainBodyGyroMeanY
- frequencyDomainBodyGyroMeanZ
- frequencyDomainBodyGyroStandardDeviationX
- frequencyDomainBodyGyroStandardDeviationY
- frequencyDomainBodyGyroStandardDeviationZ
- frequencyDomainBodyGyroMeanFreqX
- frequencyDomainBodyGyroMeanFreqY
- frequencyDomainBodyGyroMeanFreqZ
- frequencyDomainBodyAccelerometerMagnitudeMean
- frequencyDomainBodyAccelerometerMagnitudeStandardDeviation
- frequencyDomainBodyAccelerometerMagnitudeMeanFreq
- frequencyDomainBodyAccelerometerJerkMagnitudeMean
- frequencyDomainBodyAccelerometerJerkMagnitudeStandardDeviation
- frequencyDomainBodyAccelerometerJerkMagnitudeMeanFreq
- frequencyDomainBodyGyroMagnitudeMean
- frequencyDomainBodyGyroMagnitudeStandardDeviation
- frequencyDomainBodyGyroMagnitudeMeanFreq
- frequencyDomainBodyGyroJerkMagnitudeMean

- frequencyDomainBodyGyroJerkMagnitudeStandardDeviation
- frequencyDomainBodyGyroJerkMagnitudeMeanFreq
- angleBodyAccelerometerMean,gravity
- angleBodyAccelerometerJerkMean,gravityMean
- angleBodyGyroMean,gravityMean
- angleBodyGyroJerkMean,gravityMean
- angleX,gravityMean
- angleY,gravityMean
- angleZ,gravityMean