TINYDATASET

The variables of the Data Set uploaded are part of the Human Activity Recognition Using Smartphones Dataset.

That Dataset collects data from 30 volunteers within an age bracket of 19-48 years. Each person performed six activities (WALKING, WALKING_UPSTAIRS, WALKING_DOWNSTAIRS, SITTING, STANDING, LAYING) wearing a smartphone (Samsung Galaxy S II) on the waist.

For more information go to the reference: Davide Anguita, Alessandro Ghio, Luca Oneto, Xavier Parra and Jorge L. Reyes-Ortiz. Human Activity Recognition on Smartphones using a Multiclass Hardware-Friendly Support Vector Machine. International Workshop of Ambient Assisted Living (IWAAL 2012). Vitoria-Gasteiz, Spain. Dec 2012

VARIABLES

activity The activity performed by the person

Factor: 6 levels : WALKING, WALKING_UPSTAIRS, WALKING_DOWNSTAIRS, SITTING, STANDING, LAYING

subject The number which identifies each person
Number 1…30

tbodyaccmeanx mean of all means for the time domain body acceleration signal x axis for that activity and subject
Number -1..1

tbodyaccmeany mean of all means for the time domain body acceleration signal y axis for that activity and subject
Number -1..1

tbodyaccmeanz mean of all means for the time domain body acceleration signal z axis for that activity and subject
Number -1..1

tbodyaccstdx mean of all standard deviation for the time domain body acceleration signal x axis for that activity and subject
Number -1..1

tbodyaccstdy mean of all standard deviation for the time domain body acceleration signal y axis for that activity and subject
Number -1..1

tbodyaccstdz mean of all standard deviation for the time domain body acceleration signal z axis for that activity and subject

Number -1..1

tgravityaccmeanx mean of all means for the time domain gravity acceleration signal x axis for that activity and subject

Number -1..1

tgravityaccmeany mean of all means for the time domain gravity acceleration signal y axis for that activity and subject

Number -1..1

tgravityaccmeanz mean of all means for the time domain gravity acceleration signal z axis for that activity and subject

Number -1..1

tgravityaccstdx mean of all standard deviation for the time domain gravity acceleration signal x axis for that activity and subject

Number -1..1

tgravityaccstdy mean of all standard deviation for the time domain gravity acceleration signal y axis for that activity and subject

Number -1..1

tgravityaccstdy mean of all standard deviation for the time domain gravity acceleration signal z axis for that activity and subject

Number -1..1

tbodyaccjerkmeanx mean of all means for the time domain body acceleration jerk signal x axis for that activity and subject

Number -1..1

tbodyaccjerkmeany mean of all means for the time domain body acceleration jerk signal y axis for that activity and subject

Number -1..1

tbodyaccjerkmeanz mean of all means for the time domain body acceleration jerk signal z axis for that activity and subject

Number -1..1

tbodyaccjerkstdx mean of all standard deviation for the time domain body acceleration jerk signal x axis for that activity and subject

Number -1..1

tbodyaccjerkstdy mean of all standard deviation for the time domain body acceleration jerk signal y axis for that activity and subject

Number -1..1

tbodyaccjerkstdz mean of all standard deviation for the time domain body acceleration jerk signal z axis for that activity and subject

Number -1..1

tbodygyromeanx mean of all means for the time domain body gyroscopic signal x axis for that activity and subject

Number -1..1

tbodygyromeany mean of all means for the time domain body gyroscopic signal y axis for that activity and subject

Number -1..1

tbodygyromeanz mean of all means for the time domain body gyroscopic signal z axis for that activity and subject

Number -1..1

tbodygyrostdx mean of all standard deviation for the time domain body gyroscopic signal x axis for that activity and subject

Number -1..1

tbodygyrostdy mean of all standard deviation for the time domain body gyroscopic signal y axis for that activity and subject

Number -1..1

tbodygyrostdz mean of all standard deviation for the time domain body gyroscopic signal z axis for that activity and subject

Number -1..1

tbodygyrojerkmeanx mean of all means for the time domain body gyroscopic jerk signal x axis for that activity and subject

Number -1..1

tbodygyrojerkmeany mean of all means for the time domain body gyroscopic jerk signal y axis for that activity and subject

Number -1..1

tbodygyrojerkmeanz mean of all means for the time domain body gyroscopic jerk signal z axis for that activity and subject

Number -1..1

tbodygyrojerkstdx mean of all standard deviation for the time domain body gyroscopic jerk signal x axis for that activity and subject

Number -1..1

tbodygyrojerkstdy mean of all standard deviation for the time domain body gyroscopic jerk signal y axis for that activity and subject

Number -1..1

tbodygyrojerkstdz mean of all standard deviation for the time domain body gyroscopic jerk signal z axis for that activity and subject

Number -1..1

tbodyaccmagmean mean of all means for the time domain body acceleration signal for that activity and subject. Calculated using the Euclidean norm.

Number -1..1

tbodyaccmagstd mean of all standard deviation for the time domain body acceleration signal for that activity and subject. Calculated using the Euclidean norm.

Number -1..1

tgravityaccmagmean mean of all means for the time domain gravity acceleration signal for that activity and subject. Calculated using the Euclidean norm.

Number -1..1

tgravityaccmagstd mean of all standard deviation for the time domain gravity acceleration signal for that activity and subject. Calculated using the Euclidean norm.

Number -1..1

tbodyaccjerkmagmean mean of all means for the time domain body acceleration jerk signal for that activity and subject. Calculated using the Euclidean norm.

Number -1..1

tbodyaccjerkmagstd mean of all standard deviation for the time domain body acceleration jerk signal for that activity and subject. Calculated using the Euclidean norm.

Number -1..1

tbodygyromagmean mean of all means for the time domain body gyroscopic signal for that activity and subject. Calculated using the Euclidean norm.

Number -1..1

tbodygyromagstd mean of all standard deviation for the time domain body gyroscopic signal for that activity and subject. Calculated using the Euclidean norm.

Number -1..1

tbodygyrojerkmagmean mean of all means for the time domain body gyroscopic jerk signal for that activity and subject. Calculated using the Euclidean norm.

Number -1..1

tbodygyrojerkmagstd mean of all standard deviation for the time domain body gyroscopic jerk signal for that activity and subject. Calculated using the Euclidean norm.

Number -1..1

fbodyaccmeanx mean of all means for the frequency domain body acceleration signal x axis for that activity and subject

Number -1..1

fbodyaccmeany mean of all means for the frequency domain body acceleration signal y axis for that activity and subject

Number -1..1

fbodyaccmeanz mean of all means for the frequency domain body acceleration signal z axis for that activity and subject

Number -1..1

fbodyaccstdx mean of all standard deviation for the frequency domain body acceleration signal x axis for that activity and subject

Number -1..1

fbodyaccstdy mean of all standard deviation for the frequency domain body acceleration signal y axis for that activity and subject

Number -1..1

fbodyaccstdz mean of all standard deviation for the frequency domain body acceleration signal z axis for that activity and subject

Number -1..1

fbodyaccjerkmeanx mean of all means for the frequency domain body acceleration jerk signal x axis for that activity and subject

Number -1..1

fbodyaccjerkmeany mean of all means for the frequency domain body acceleration jerk signal y axis for that activity and subject

Number -1..1

fbodyaccjerkmeanz mean of all means for the frequency domain body acceleration jerk signal z axis for that activity and subject

Number -1..1

fbodyaccjerkstdx mean of all standard deviation for the frequency domain body acceleration jerk signal x axis for that activity and subject

Number -1..1

fbodyaccjerkstdy mean of all standard deviation for the frequency domain body acceleration jerk signal y axis for that activity and subject

Number -1..1

fbodyaccjerkstdz mean of all standard deviation for the frequency domain body acceleration jerk signal z axis for that activity and subject

Number -1..1

fbodygyromeanx mean of all means for the frequency domain body gyroscopic signal x axis for that activity and subject

Number -1..1

fbodygyromeany mean of all means for the frequency domain body gyroscopic signal y axis for that activity and subject

Number -1..1

fbodygyromeanz mean of all means for the frequency domain body gyroscopic signal z axis for that activity and subject

Number -1..1

fbodygyrostdx mean of all standard deviation for the frequency domain body gyroscopic signal x axis for that activity and subject

Number -1..1

fbodygyrostdy mean of all standard deviation for the frequency domain body gyroscopic signal y axis for that activity and subject

Number -1..1

fbodygyrostdz mean of all standard deviation for the frequency domain body gyroscopic signal z axis for that activity and subject

Number -1..1

fbodyaccmagmean mean of all means for the frequency domain body acceleration signal for that activity and subject. Calculated using the Euclidean norm.

Number -1..1

fbodyaccmagstd mean of all standard deviation for the frequency domain body acceleration signal for that activity and subject. Calculated using the Euclidean norm.

Number -1..1

fbodybodyaccjerkmagmean mean of all means for the frequency domain body acceleration jerk signal for that activity and subject. Calculated using the Euclidean norm.

Number -1..1

fbodybodyaccjerkmagstd mean of all standard deviation for the frequency domain body acceleration jerk signal for that activity and subject. Calculated using the Euclidean norm.

Number -1..1

fbodybodygyromagmean mean of all means for the frequency domain body gyroscopic signal for that activity and subject. Calculated using the Euclidean norm.

Number -1..1

fbodybodygyromagstd mean of all standard deviation for the frequency domain body gyroscopic signal for that activity and subject. Calculated using the Euclidean norm.

Number -1..1

fbodybodygyrojerkmagmean mean of all means for the frequency domain body gyroscopic jerk signal for that activity and subject. Calculated using the Euclidean norm.

Number -1..1

fbodybodygyrojerkmagstd mean of all standard deviation for the frequency domain body gyroscopic jerk signal for that activity and subject. Calculated using the Euclidean norm.

Number -1..1