

## HUMAN ACTIVITY RECOGNITION USING SMARTPHONES DATASET – CODE BOOK

**SUBJECT** : Subject ID for the subject performing the training or the test . Range 1 to 30

**ACTIVITY** : Activity conducted by the subject

ACTIVITYID	ACTIVITY
1	WALKING
2	WALKING_UPSTAIRS
3	WALKING_DOWNSTAIRS
4	SITTING
5	STANDING
6	LYING

**FEATURES** : The signals captured for each of the features in the X , Y and Z directions with frequency and time domain signals

FEATURE	VARIABLE
tBodyAccmeanTimeX	BodyAccmeanTimeX
tBodyAccmeanTimeY	BodyAccmeanTimeY
tBodyAccmeanTimeZ	BodyAccmeanTimeZ
tBodyAccstdTimeX	BodyAccstdTimeX
tBodyAccstdTimeY	BodyAccstdTimeY
tBodyAccstdTimeZ	BodyAccstdTimeZ
tGravityAccmeanTimeX	GravityAccmeanTimeX
tGravityAccmeanTimeY	GravityAccmeanTimeY
tGravityAccmeanTimeZ	GravityAccmeanTimeZ
tGravityAccstdTimeX	GravityAccstdTimeX
tGravityAccstdTimeY	GravityAccstdTimeY
tGravityAccstdTimeZ	GravityAccstdTimeZ
tBodyAccJerkmeanTimeX	BodyAccJerkmeanTimeX
tBodyAccJerkmeanTimeY	BodyAccJerkmeanTimeY
tBodyAccJerkmeanTimeZ	BodyAccJerkmeanTimeZ
tBodyAccJerkstdTimeX	BodyAccJerkstdTimeX
tBodyAccJerkstdTimeY	BodyAccJerkstdTimeY
tBodyAccJerkstdTimeZ	BodyAccJerkstdTimeZ
tBodyGyromeanTimeX	BodyGyromeanTimeX
tBodyGyromeanTimeY	BodyGyromeanTimeY
tBodyGyromeanTimeZ	BodyGyromeanTimeZ
tBodyGyrostdTimeX	BodyGyrostdTimeX
tBodyGyrostdTimeY	BodyGyrostdTimeY
tBodyGyrostdTimeZ	BodyGyrostdTimeZ
tBodyGyroJerkmeanTimeX	BodyGyroJerkmeanTimeX

tBodyGyroJerkmeanTimeY	BodyGyroJerkmeanTimeY
tBodyGyroJerkmeanTimeZ	BodyGyroJerkmeanTimeZ
tBodyGyroJerkstdTimeX	BodyGyroJerkstdTimeX
tBodyGyroJerkstdTimeY	BodyGyroJerkstdTimeY
tBodyGyroJerkstdTimeZ	BodyGyroJerkstdTimeZ
tBodyAccMagmean	BodyAccMagmean
tBodyAccMagstd	BodyAccMagstd
tGravityAccMagmean	GravityAccMagmean
tGravityAccMagstd	GravityAccMagstd
tBodyAccJerkMagmean	BodyAccJerkMagmean
tBodyAccJerkMagstd	BodyAccJerkMagstd
tBodyGyroMagmean	BodyGyroMagmean
tBodyGyroMagstd	BodyGyroMagstd
tBodyGyroJerkMagmean	BodyGyroJerkMagmean
tBodyGyroJerkMagstd	BodyGyroJerkMagstd
fBodyAccmeanFreqX	BodyAccmeanFreqX
fBodyAccmeanFreqY	BodyAccmeanFreqY
fBodyAccmeanFreqZ	BodyAccmeanFreqZ
fBodyAccstdFreqX	BodyAccstdFreqX
fBodyAccstdFreqY	BodyAccstdFreqY
fBodyAccstdFreqZ	BodyAccstdFreqZ
fBodyAccJerkmeanFreqX	BodyAccJerkmeanFreqX
fBodyAccJerkmeanFreqY	BodyAccJerkmeanFreqY
fBodyAccJerkmeanFreqZ	BodyAccJerkmeanFreqZ
fBodyAccJerkstdFreqX	BodyAccJerkstdFreqX
fBodyAccJerkstdFreqY	BodyAccJerkstdFreqY
fBodyAccJerkstdFreqZ	BodyAccJerkstdFreqZ
fBodyGyromeanFreqX	BodyGyromeanFreqX
fBodyGyromeanFreqY	BodyGyromeanFreqY
fBodyGyromeanFreqZ	BodyGyromeanFreqZ
fBodyGyrostdFreqX	BodyGyrostdFreqX
fBodyGyrostdFreqY	BodyGyrostdFreqY
fBodyGyrostdFreqZ	BodyGyrostdFreqZ
fBodyAccMagmean	BodyAccMagmean
fBodyAccMagstd	BodyAccMagstd
fBodyBodyAccJerkMagmean	BodyBodyAccJerkMagmean
fBodyBodyAccJerkMagstd	BodyBodyAccJerkMagstd
fBodyBodyGyroMagmean	BodyBodyGyroMagmean
fBodyBodyGyroMagstd	BodyBodyGyroMagstd
fBodyBodyGyroJerkMagmean	BodyBodyGyroJerkMagmean
fBodyBodyGyroJerkMagstd	BodyBodyGyroJerkMagstd

TIDYDATA : Dataset that contains the mean and standard deviation of the signals for the features

TIDYDATASUMMARY : Summary of the mean and standard deviation of the signals for the features for each subject and the activity performed by them