Data Dictionary – Human Activity Recognition Using Smartphones

User_Id

Identifies the user performing the test activity.

Acticity Name

Describes the Activity during which the specific measurement was done from 6 options:

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

tbodyAcc-mean()-X

Time based body accelerometer measurement for mean value on x-axis.

tbodyAcc-mean()-Y

Time based body accelerometer measurement for mean value on y-axis.

tbodyAcc-mean()-Z

Time based body accelerometer measurement for mean value on z-axis.

tbodyAcc-std()-X

Time based body accelerometer measurement for standard deviation value on x-axis.

tbodyAcc-std()-Y

Time based body accelerometer measurement for standard deviation value on y-axis

tbodyAcc-std()-Z

Time based body accelerometer measurement for standard deviation value on z-axis.

tGravityAcc-mean()-X

Time based gravity accelerometer measurement for mean value on x-axis.

tGravityAcc-mean()-Y

Time based Gravity accelerometer measurement for mean value on y-axis.

tGravityAcc-mean()-Z

Time based Gravity accelerometer measurement for mean value on z-axis.

tGravityAcc-std()-X

Time based Gravity accelerometer measurement for standard deviation value on x-axis.

tGravityAcc-std()-Y

Time based Gravity accelerometer measurement for standard deviation value on y-axis.

tGravityAcc-std()-Z

Time based Gravity accelerometer measurement for standard deviation value on z-axis.

tbodyAccjerk-mean()-X
Time based body accelerometer jerk measurement for mean value on x-axis

tbodyAccjerk-mean()-Y
Time based body accelerometer jerk measurement for mean value on y-axis.

tbodyAccjerk-mean()-Z
Time based body accelerometer jerk measurement for mean value on z-axis.

tbodyAccjerk-std()-X
Time based body accelerometer jerk measurement for standard deviation value on x-axis.

tbodyAccjerk-std()-Y
Time based body accelerometer jerk measurement for standard deviation value on y-axis.

tbodyAccjerk-std()-Z
Time based body accelerometer jerk measurement for standard deviation value on z-axis.

tbodyGyro-mean()-X
Time based body gyroscope measurement for mean value on x-axis.
tbodyGyro-mean()-Y
Time based body gyroscope measurement for mean value on y-axis.

tbodyGyro-mean()-Z
Time based body gyroscope measurement for mean value on z-axis.

tbodyGyro-std()-X
Time based body gyroscope measurement for standard deviation value on x-axis.

tbodyGyro-std()-Y
Time based body gyroscope measurement for standard deviation value on y-axis.

tbodyGyro-std()-Z
Time based body gyroscope measurement for standard deviation value on z-axis.

tbodyGyrojerk-mean()-X
Time based body gyroscope jerk measurement for mean value on x-axis.

tbodyGyrojerk-mean()-Y
Time based body gyroscope jerk measurement for mean value on y-axis.

tbodyGyrojerk-mean()-Z
Time based body gyroscope jerk measurement for mean value on z-axis.

tbodyGyrojerk-std()-X
Time based body gyroscope jerk measurement for standard deviation value on x-axis.

tbodyGyrojerk-std()-Y
: Time based body gyroscope jerk measurement for standard deviation value on y-axis.

tbodyGyrojerk-std()-Z
: Time based body gyroscope jerk measurement for standard deviation value on z-axis.

tbodyAccMag-mean()
: Time based body accelerometer magnitude measurement for mean value.

tbodyAccMag-std()
: Time based body accelerometer magnitude measurement for standard deviation value.

tGravityAccMag-mean()
: Time based Gravity accelerometer magnitude measurement for mean value.

tGravityAccMag-std()
: Time based Gravity accelerometer magnitude measurement for standard deviation value.

tbodyAccjerkMag-mean()
: Time based body accelerometer jerk magnitude measurement for mean value.

tbodyAccjerkMag-std()
: Time based body accelerometer jerk magnitude measurement for standard deviation value.

tbodyGyroMag-mean()
: Time based body gyroscope magnitude measurement for mean value.

tbodyGyroMag-std()
: Time based body gyroscope magnitude measurement for standard deviation value.

tbodyGyrojerkMag-mean()
: Time based body gyroscope jerk magnitude measurement for mean value.

tbodyGyrojerkMag-std()
: Time based body gyroscope jerk magnitude measurement for standard deviation value.

fbodyAcc-mean()-X
: FFT Calculated body accelerometer measurement for mean value on x-axis.

fbodyAcc-mean()-Y
: FFT Calculated body accelerometer measurement for mean value on y-axis.

fbodyAcc-mean()-Z
: FFT Calculated body accelerometer measurement for mean value on z-axis.

fbodyAcc-std()-X
: FFT Calculated body accelerometer measurement for standard deviation value on x-axis.

fbodyAcc-std()-Y

FFT Calculated body accelerometer measurement for standard deviation value on y-axis.

fbodyAcc-std()-Z

FFT Calculated body accelerometer measurement for standard deviation value on z-axis.

fbodyAcc-meanFreq()-X

FFT Calculated body accelerometer measurement for meanFreq value on x-axis.

fbodyAcc-meanFreq()-Y

FFT Calculated body accelerometer measurement for meanFreq value on y-axis.

fbodyAcc-meanFreq()-Z

FFT Calculated body accelerometer measurement for meanFreq value on z-axis.

fbodyAccjerk-mean()-X

FFT Calculated body accelerometer linear acceleration and angular velocity measurement for mean value on x-axis.

fbodyAccjerk-mean()-Y

FFT Calculated body accelerometer linear acceleration and angular velocity measurement for mean value on y-axis.

fbodyAccjerk-mean()-Z

FFT Calculated body accelerometer linear acceleration and angular velocity measurement for mean value on z-axis.

fbodyAccjerk-std()-X

FFT Calculated body accelerometer linear acceleration and angular velocity measurement for standard deviation value on x-axis.

fbodyAccjerk-std()-Y

FFT Calculated body accelerometer linear acceleration and angular velocity measurement for standard deviation value on y-axis.

fbodyAccjerk-std()-Z

FFT Calculated body accelerometer linear acceleration and angular velocity measurement for standard deviation value on z-axis

fbodyAccjerk-meanFreq()-X

FFT Calculated body accelerometer linear acceleration and angular velocity measurement for meanFreq value on x-axis.

fbodyAccjerk-meanFreq()-Y

FFT Calculated body accelerometer linear acceleration and angular velocity measurement for meanFreq value on y-axis.

fbodyAccjerk-meanFreq()-Z
: FFT Calculated body accelerometer linear acceleration and angular velocity measurement for meanFreq value on z-axis.

fbodyGyro-mean()-X
: FFT Calculated body gyroscope measurement for mean value on x-axis.

fbodyGyro-mean()-Y
: FFT Calculated body gyroscope measurement for mean value on y-axis.

fbodyGyro-mean()-Z
: FFT Calculated body gyroscope measurement for mean value on z-axis.

fbodyGyro-std()-X
: FFT Calculated body gyroscope measurement for standard deviation value on x-axis.

fbodyGyro-std()-Y
: FFT Calculated body gyroscope measurement for standard deviation value on y-axis.

fbodyGyro-std()-Z
: FFT Calculated body gyroscope measurement for standard deviation value on z-axis.

fbodyGyro-meanFreq()-X
: FFT Calculated body gyroscope measurement for meanFreq value on x-axis.

fbodyGyro-meanFreq()-Y
: FFT Calculated body gyroscope measurement for meanFreq value on y-axis.

fbodyGyro-meanFreq()-Z
: FFT Calculated body gyroscope measurement for meanFreq value on z-axis.

fbodyAccMag-mean()
: FFT Calculated body accelerometer magnitude measurement for mean value.

fbodyAccMag-std()
: FFT Calculated body accelerometer magnitude measurement for standard deviation value.

fbodyAccMag-meanFreq()
: FFT Calculated body accelerometer magnitude measurement for meanFreq value.

fbodybodyAccjerkMag-mean()
: FFT Calculated body accelerometer linear acceleration and angular velocity magnitude measurement for mean value.

fbodybodyAccjerkMag-std()
: FFT Calculated body accelerometer linear acceleration and angular velocity magnitude measurement for standard deviation value.

fbodybodyAccjerkMag-meanFreq()

FFT Calculated body accelerometer linear acceleration and angular velocity magnitude measurement for meanFreq value.

fbodybodyGyroMag-mean()

FFT Calculated body gyroscope magnitude measurement for mean value.

fbodybodyGyroMag-std()

FFT Calculated body gyroscope magnitude measurement for standard deviation value.

fbodybodyGyroMag-meanFreq()

FFT Calculated body gyroscope magnitude measurement for meanFreq value.

fbodybodyGyrojerkMag-mean()

FFT Calculated body gyroscope linear acceleration and angular velocity magnitude measurement for mean value.

fbodybodyGyrojerkMag-std()

FFT Calculated body gyroscope linear acceleration and angular velocity magnitude measurement for standard deviation value.

fbodybodyGyrojerkMag-meanFreq()

FFT Calculated body gyroscope linear acceleration and angular velocity magnitude measurement for meanFreq value.