Data Dictionary

All values between -1 and 1 unless otherwise noted.

Subject
: Identification of subject preforming the activities
: Values: 1-30

ActivityName
: Descriptive name of the activity being performed
: Values: WALKING, WALKING_UPSTAIRS, WALKING_DOWNSTAIRS, SITTING, STANDING, LAYING

tBodyAcc_Mean_X
tBodyAcc_Mean_Y
tBodyAcc_Mean_Z
: Average mean body acceleration in X, Y and Z directions in the time domain

tBodyAcc_Std_X
tBodyAcc_Std_Y
tBodyAcc_Std_Z
: Average standard deviation of body acceleration in X, Y and Z directions in the time domain

tGravityAcc_Mean_X
tGravityAcc_Mean_Y
tGravityAcc_Mean_Z
: Average mean acceleration in X, Y and Z directions due to gravity in the time domain

tGravityAcc_Std_X
tGravityAcc_Std_Y
tGravityAcc_Std_Z
: Average standard deviation of acceleration in X, Y and Z directions due to gravity in the time domain

tBodyAccJerk_Mean_X
tBodyAccJerk_Mean_Y
tBodyAccJerk_Mean_Z
: Average mean of change of body acceleration in X, Y and Z directions in the time domain

tBodyAccJerk_Std_X
tBodyAccJerk_Std_Y
tBodyAccJerk_Std_Z
: Average mean of standard deviation of change of body acceleration in X, Y and Z directions in the time domain

tBodyGyro_Mean_X
tBodyGyro_Mean_Y
tBodyGyro_Mean_Z
: Average mean body gyroscopic signal in X, Y and Z directions in the time domain

tBodyGyro_Std_X
tBodyGyro_Std_Y
tBodyGyro_Std_Z
: Average standard deviation of body gyroscopic signal in X, Y and Z directions in the time domain

tBodyGyroJerk_Mean_X
tBodyGyroJerk_Mean_Y
tBodyGyroJerk_Mean_Z
      Average mean change of body gyroscopic signal in X, Y and Z directions in the time domain
tBodyGyroJerk_Std_X
tBodyGyroJerk_Std_Y
tBodyGyroJerk_Std_Z
      Average standard deviation of standard of body gyroscopic signal in X, Y and Z directions in the time domain
tBodyAccMag_Mean
      Average mean magnitude of body acceleration in the time domain
tBodyAccMag_Std
      Average mean of standard deviation of magnitude of body acceleration in the time domain
tGravityAccMag_Mean
      Average mean magnitude of gravity acceleration in the time domain
tGravityAccMag_Std
      Average mean of standard deviation of magnitude of gravity acceleration in the time domain
tBodyAccJerkMag_Mean
      Average mean magnitude of change of body acceleration in the time domain
tBodyAccJerkMag_Std
      Average mean of change of standard deviation of magnitude of body acceleration in the time domain
tBodyGyroMag_Mean
      Average mean magnitude of gyroscopic signal in the time domain
tBodyGyroMag_Std
      Average mean of standard deviation of magnitude of gyroscopic signal in the time domain
tBodyGyroJerkMag_Mean
      Average mean magnitude of change of gyroscopic signal in the time domain
tBodyGyroJerkMag_Std
      Average mean of change of standard deviation of magnitude of gyroscopic signal in the time domain
fBodyAcc_Mean_X
fBodyAcc_Mean_Y
fBodyAcc_Mean_Z
      Average mean body acceleration in X, Y and Z directions in the frequency domain
fBodyAcc_Std_X
fBodyAcc_Std_Y
fBodyAcc_Std_Z
      Average standard deviation of body acceleration in X, Y and Z directions in the frequency domain
fBodyAcc_MeanFreq_X
fBodyAcc_MeanFreq_Y
fBodyAcc_MeanFreq_Z
      Average mean of index of frequency of body acceleration in directions X, Y and Z
fBodyAccJerk_Mean_X
fBodyAccJerk_Mean_Y

fBodyAccJerk_Mean_Z
: Average mean of change of body acceleration in X, Y and Z directions in the frequency domain

fBodyAccJerk_Std_X
fBodyAccJerk_Std_Y
fBodyAccJerk_Std_Z
: Average mean of standard deviation of change of body acceleration in X, Y and Z directions in the frequency domain

fBodyAccJerk_MeanFreq_X
fBodyAccJerk_MeanFreq_Y
fBodyAccJerk_MeanFreq_Z
: Average mean of index of frequency of change of body acceleration in directions X, Y and Z

fBodyGyro_Mean_X
fBodyGyro_Mean_Y
fBodyGyro_Mean_Z
: Average mean body gyroscopic signal in X, Y and Z directions in the frequency domain

fBodyGyro_Std_X
fBodyGyro_Std_Y
fBodyGyro_Std_Z
: Average standard deviation of body gyroscopic signal in X, Y and Z directions in the frequency domain

fBodyGyro_MeanFreq_X
fBodyGyro_MeanFreq_Y
fBodyGyro_MeanFreq_Z
: Average mean of index of frequency of change of body gyroscopic signal in directions X, Y and Z

fBodyAccMag_Mean
: Average mean of magnitude of body acceleration in the frequency domain

fBodyAccMag_Std
: Average mean of standard deviation of magnitude of body acceleration in the frequency domain

fBodyAccMag_MeanFreq
: Average mean of magnitude of frequency of body acceleration

fBodyBodyAccJerkMag_Mean
: Average mean of magnitude of frequency of change of body acceleration in the frequency domain

fBodyBodyAccJerkMag_Std
: Average mean of standard deviation of magnitude of frequency of change of body acceleration in the frequency domain

fBodyBodyAccJerkMag_MeanFreq
: Average mean of magnitude of frequency of change of body acceleration

fBodyBodyGyroMag_Mean
: Average mean of magnitude of body mean gyroscopic signal in the frequency domain

fBodyBodyGyroMag_Std
: Average mean of standard deviation of magnitude of body mean gyroscopic signal in the frequency domain

fBodyBodyGyroMag_MeanFreq
: Average mean frequency of magnitude of body mean gyroscopic signal

fBodyBodyGyroJerkMag_Mean
      Average mean of magnitude of change of body mean gyroscopic signal in the frequency domain
fBodyBodyGyroJerkMag_Std
      Average mean of standard deviation of magnitude of change of body mean gyroscopic signal in the frequency domain
fBodyBodyGyroJerkMag_MeanFreq
      Average mean frequency of magnitude of change of body mean gyroscopic signal
angle_tBodyAccMean,gravity
      Average mean angle between body acceleration vector and gravity
angle_tBodyAccJerkMean,gravityMean
      Average mean angle between body acceleration change vector and gravity
angle_tBodyGyroMean,gravityMean
      Average mean angle between mean gyroscopic signal vector and mean gravity
angle_tBodyGyroJerkMean,gravityMean
      Average mean angle between mean gyroscopic signal change vector and mean gravity
angle_X,gravityMean
angle_Y,gravityMean
angle_Z,gravityMean
      Average mean angles between directions X, Y and Z and mean gravity