

DATA DICTIONARY - UCI HAR Dataset  
10299 objects of 81 variables

subject 2  
30 volunteers within an age bracket of 19-48 years;  
Each person performed six activities  
int 1..30

tBodyAccmeanX 5  
Average of body acceleration in X axis in time  
domain  
num -1.0000..1.0000

tBodyAccmeanY 6  
Average of body acceleration in Y axis in time  
domain  
num -1.00000..1.00000

tBodyAccmeanZ 6  
Average of body acceleration in Z axis in time  
domain  
num -1.00000..1.00000

tBodyAccstdX 6  
Standard deviation of body acceleration in X axis in  
time domain  
num -1.00000..1.00000

tBodyAccstdY 6  
Standard deviation of body acceleration in Y axis in  
time domain  
num -1.00000..1.00000

tBodyAccstdZ 6  
Standard deviation of body acceleration in Z axis in  
time domain  
num -1.00000..1.00000

tGravityAccmeanX 5  
Mean of gravity acceleration in X axis in time domain  
num -1.0000..1.0000

tGravityAccmeanY 7  
Mean of gravity acceleration in Y axis in time domain  
num -1.000000..1.000000

tGravityAccmeanZ 6  
Mean of gravity acceleration in Z axis in time domain  
num -1.00000..1.00000

tGravityAccstdX 5  
Standard deviation of gravity acceleration in X axis in  
time domain  
num -1.0000..1.0000

tGravityAccstdY 5  
Standard deviation of gravity acceleration in Y axis in  
time domain  
num -1.0000..1.0000

tGravityAccstdZ 5  
Standard deviation of gravity acceleration in Z axis in  
time domain  
num -1.0000..1.0000

tBodyAccJerkmeanX 6  
Mean of body linear acceleration as Jerk signals in X  
axis in time domain  
num -1.00000..1.00000

tBodyAccJerkmeanY 7  
Mean of body linear acceleration as Jerk signals in Y  
axis in time domain  
num -1.000000..1.000000

tBodyAccJerkmeanZ 7  
Mean of body linear acceleration as Jerk signals in Z  
axis in time domain  
num -1.000000..1.000000

tBodyAccJerkstdX 5  
Standard deviation of body linear acceleration as Jerk  
signals in X axis in time domain  
num -1.0000..1.0000

tBodyAccJerkstdY 5  
Standard deviation of body linear acceleration as Jerk

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signals in Y axis in time domain
num      -1.0000..1.0000

tBodyAccJerkstdZ    5
Standard deviation of body linear acceleration as Jerk
signals in Z axis in time domain
num      -1.0000..1.0000

tBodyGyromeanX      6
Mean of body angular velocity in X axis in time domain
num      -1.00000..1.00000

tBodyGyromeanY      6
Mean of body angular velocity in Y axis in time domain
num      -1.00000..1.00000

tBodyGyromeanZ      6
Mean of body angular velocity in Z axis in time domain
num      -1.00000..1.00000

tBodyGyrostdX       5
Standard deviation of body angular velocity in X axis
in time domain
num      -1.0000..1.0000

tBodyGyrostdY       5
Standard deviation of body angular velocity in Y axis
in time domain
num      -1.0000..1.0000

tBodyGyrostdZ       5
Standard deviation of body angular velocity in Z axis
in time domain
num      -1.0000..1.0000

tBodyGyroJerkmeanX  6
Mean of body angular velocity as Jerk signals in X
axis in time domain
num      -1.00000..1.00000

tBodyGyroJerkmeanY  6
Mean of body angular velocity as Jerk signals in Y
axis in time domain
num      -1.00000..1.00000

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tBodyGyroJerkmeanZ 6  
Mean of body angular velocity as Jerk signals in Z  
axis in time domain  
num -1.00000..1.00000

tBodyGyroJerkstdX 5  
Standard deviation of body angular velocity as Jerk  
signals in X axis in time domain  
num -1.00000..1.00000

tBodyGyroJerkstdY 5  
Standard deviation of body angular velocity as Jerk  
signals in Y axis in time domain  
num -1.00000..1.00000

tBodyGyroJerkstdZ 5  
Standard deviation of body angular velocity as Jerk  
signals in Z axis in time domain  
num -1.00000..1.00000

tBodyAccMagmean 5  
Mean of magnitude of body acceleration, the three  
dimensional signals, using Euclidian norm in time domain  
num -1.0000..1.0000

tBodyAccMagstd 5  
Standard deviation of magnitude of body acceleration,  
the three dimensional signals, using Euclidian norm in  
time domain  
num -1.0000..1.0000

tGravityAccMagmean 5  
Mean of magnitude of gravity acceleration, the three  
dimensional signals, using Euclidian norm in time  
domain  
num -1.0000..1.0000

tGravityAccMagstd 5  
Standard deviation of magnitude of gravity  
acceleration, the three dimensional signals,  
using Euclidian norm in time domain  
num -1.0000..1.0000

tBodyAccJerkMagmean        5  
Mean of magnitude of Jerk signals obtained by body  
linear acceleration in time domain  
num        -1.0000..1.0000

tBodyAccJerkMagstd        5  
Standard deviation of magnitude of Jerk signals  
obtained by body linear acceleration in time domain  
num        -1.0000..1.0000

tBodyGyroMagmean        5  
Mean of magnitude of body angular velocity in time  
domain  
num        -1.0000..1.0000

tBodyGyroMagstd        5  
Standard deviation of magnitude of body angular  
velocity in time domain  
num        -1.0000..1.0000

tBodyGyroJerkMagmean        5  
Mean of magnitude of Jerk signals obtained by body  
angular velocity in time domain  
num        -1.0000..1.0000

tBodyGyroJerkMagstd        5  
Standard deviation of magnitude of Jerk signals  
obtained by body        angular velocity in time domain  
num        -1.0000..1.0000

fBodyAccmeanX        5  
Average of body acceleration in X axis in frequency  
domain  
num        -1.0000..1.0000

fBodyAccmeanY        5  
Average of body acceleration in Y axis in frequency  
domain  
num        -1.0000..1.0000

fBodyAccmeanZ        5  
Average of body acceleration in Z axis in frequency  
domain  
num        -1.0000..1.0000

fBodyAccstdX 5  
Standard deviation of body acceleration in X axis in  
frequency domain  
num -1.0000..1.0000

fBodyAccstdY 6  
Standard deviation of body acceleration in Y axis in  
frequency domain  
num -1.00000..1.00000

fBodyAccstdZ 5  
Standard deviation of body acceleration in Z axis in  
frequency domain  
num -1.0000..1.0000

fBodyAccmeanFreqX 6  
Weighted average of the frequency components to obtain  
a mean frequency of body acceleration in X axis  
num -1.00000..1.00000

fBodyAccmeanFreqY 6  
Weighted average of the frequency components to obtain  
a mean frequency of body acceleration in Y axis  
num -1.00000..1.00000

fBodyAccmeanFreqZ 6  
Weighted average of the frequency components to obtain  
a mean frequency of body acceleration in Z axis  
num -1.00000..1.00000

fBodyAccJerkmeanX 5  
Mean of Jerk signals obtained by body acceleration in X  
axis in frequency domain  
num -1.0000..1.0000

fBodyAccJerkmeanY 5  
Mean of Jerk signals obtained by body acceleration in Y  
axis in frequency domain  
num -1.0000..1.0000

fBodyAccJerkmeanZ 5  
Mean of Jerk signals obtained by body acceleration in Z  
axis in frequency domain  
num -1.0000..1.0000

fBodyAccJerkstdX            5  
Standard deviation of Jerk signals obtained by body  
acceleration in X axis in frequency domain  
num            -1.0000..1.0000

fBodyAccJerkstdY            5  
Standard deviation of Jerk signals obtained by body  
acceleration in Y axis in frequency domain  
num            -1.0000..1.0000

fBodyAccJerkstdZ            5  
Standard deviation of Jerk signals obtained by body  
acceleration in Z axis in frequency domain  
num            -1.0000..1.0000

fBodyAccJerkmeanFreqX    6  
Weighted average of the frequency components to obtain  
a mean frequency of Jerk signals calculated by body  
acceleration in X axis  
num            -1.00000..1.00000

fBodyAccJerkmeanFreqY    6  
Weighted average of the frequency components to obtain  
a mean frequency of Jerk signals calculated by body  
acceleration in Y axis  
num            -1.00000..1.00000

fBodyAccJerkmeanFreqZ    6  
Weighted average of the frequency components to obtain  
a mean frequency of Jerk signals calculated by body  
acceleration in Z axis  
num            -1.00000..1.00000

fBodyGyromeanX            5  
Average of body angular velocity in X axis in frequency  
domain  
num            -1.0000..1.0000

fBodyGyromeanY            5  
Average of body angular velocity in Y axis in frequency  
domain  
num            -1.0000..1.0000

fBodyGyromeanZ                      5  
Average of body angular velocity in Z axis in frequency  
domain  
num                      -1.0000..1.0000

fBodyGyrostdX                      5  
Standard deviation of body angular velocity in X axis  
in frequency domain  
num                      -1.0000..1.0000

fBodyGyrostdY                      5  
Standard deviation of body angular velocity in Y axis  
in frequency domain  
num                      -1.0000..1.0000

fBodyGyrostdZ                      5  
Standard deviation of body angular velocity in Z axis  
in frequency domain  
num                      -1.0000..1.0000

fBodyGyromeanFreqX                  6  
Weighted average of the frequency components to obtain  
a mean frequency of Jerk signals calculated by body  
angular velocity in X axis  
num                      -1.00000..1.00000

fBodyGyromeanFreqY                  6  
Weighted average of the frequency components to obtain  
a mean frequency of Jerk signals calculated by body  
angular velocity in Y axis  
num                      -1.00000..1.00000

fBodyGyromeanFreqZ                  6  
Weighted average of the frequency components to obtain  
a mean frequency of Jerk signals calculated by body  
angular velocity in Z axis  
num                      -1.00000..1.00000

fBodyAccMagmean                      5  
Mean of magnitude of body acceleration, the three  
dimensional signals, using Euclidian norm in frequency  
domain  
num                      -1.0000..1.0000



fBodyAccMagstd 5  
Standard deviation of magnitude of body acceleration,  
the three dimensional signals, using Euclidian norm in  
frequency domain  
num -1.0000..1.0000

fBodyAccMagmeanFreq 6  
Weighted average of the frequency components to obtain  
a mean frequency of magnitude of body acceleration  
num -1.00000..1.00000

fBodyBodyAccJerkMagmean 5  
Mean of magnitude of Jerk signals obtained by body  
linear acceleration in frequency domain  
num -1.0000..1.0000

fBodyBodyAccJerkMagstd 5  
Standard deviation of magnitude of Jerk signals  
obtained by body linear acceleration in frequency  
domain  
num -1.0000..1.0000

fBodyBodyAccJerkMagmeanFreq 7  
Weighted average of the frequency components to obtain  
a mean frequency of magnitude of of Jerk signals  
calculated by body linear acceleration  
num -1.000000..1.000000

fBodyBodyGyroMagmean 5  
Mean of magnitude of body angular velocity in frequency  
domain  
num -1.0000..1.0000

fBodyBodyGyroMagstd 5  
Standard deviation of magnitude of body angular  
velocity in frequency domain  
num -1.0000..1.0000

fBodyBodyGyroMagmeanFreq 6  
Weighted average of the frequency components to obtain  
a mean frequency of magnitude of body angular velocity  
num -1.00000..1.00000

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fBodyBodyGyroJerkMagmean      5
    Mean of magnitude of Jerk signals obtained by body
    angular velocity in frequency domain
    num      -1.0000..1.0000

fBodyBodyGyroJerkMagstd      5
    Standard deviation of magnitude of Jerk signals
    obtained by body      angular velocity in frequency
    domain
    num      -1.0000..1.0000

fBodyBodyGyroJerkMagmeanFreq  6
    Weighted average of the frequency components to obtain
    a mean frequency of magnitude of of Jerk signals
    calculated by body angular velocity
    num      -1.000000..1.000000

activity_labels
    Factor w/ 6 levels "LAYING", "SITTING", "STANDING",
    "WALKING", "WALKING_DOWNSTAIRS", "WALKING_UPSTAIRS"

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