(\*) variable name (Data Type) description range (1) subject (Integer) individual subject identifier 1...30 (2) activities (String) activity description WALKING WALKING UPSTAIRS WALKING\_DOWNSTAIRS SITTING STANDING **LAYING** (3) tBodyAcc-mean()-X (Double) mean body accelerometer recording in x direction in time domain -1.0...1.0 (4) tBodyAcc-mean()-Y (Double) mean body accelerometer recording in y direction in time domain -1.0...1.0 (5) tBodyAcc-mean()-Z (Double) mean body accelerometer recording in z direction in time domain -1.0...1.0 (6) tBodyAcc-std()-X (Double) standard deviation by accelerometer recording in x direction in time domain -1.0...1.0 (7) tBodyAcc-std()-Y (Double) standard deviation of body by accelerometer recording in y direction in time domain -1.0...1.0 (8) tBodyAcc-std()-Z (Double) standard deviation of body by accelerometer recording in z direction in time domain -1.0...1.0 (9) tGravityAcc-mean()-X (Double) mean gravity by accelerometer recording in x direction in time domain -1.0...1.0 (10) tGravityAcc-mean()-Y (Double) mean gravity by accelerometer recording in y direction in time domain -1.0...1.0 (11) tGravitvAcc-mean()-Z (Double) mean gravity by accelerometer recording in z direction in time domain -1.0...1.0

(12) tGravityAcc-std()-X (Double) standard deviation of gravity by accelerometer recording in x direction in time domain -1.0...1.0

### (13) tGravityAcc-std()-Y (Double)

standard deviation of gravity by accelerometer recording in y direction in time domain -1.0...1.0

## (14) tGravityAcc-std()-Z (Double)

standard deviation of gravity by accelerometer recording in z direction in time domain -1.0...1.0

## (15) tBodyAccJerk-mean()-X (Double)

mean body jerk by accelerometer recording in x direction in time domain -1.0...1.0

### (16) tBodyAccJerk-mean()-Y (Double)

mean body jerkaccelerometer recording in y direction in time domain -1.0...1.0

# (17) tBodyAccJerk-mean()-Z (Double)

mean body jerk by accelerometer recording in z direction in time domain -1.0...1.0

# (18) tBodyAccJerk-std()-X (Double)

standard deviation of body jerk by accelerometer recording in x direction in time domain -1.0...1.0

### (19) tBodyAccJerk-std()-Y (Double)

standard deviation of body jerk by accelerometer recording in y direction in time domain -1.0...1.0

## (20) tBodyAccJerk-std()-Z (Double)

standard deviation of body jerk by accelerometer recording in z direction in time domain -1.0...1.0

# (21) tBodyGyro-mean()-X (Double)

mean body gyroscope recording in x direction in time domain -1.0...1.0

#### (22) tBodyGyro-mean()-Y (Double)

mean body gyroscope recording in y direction in time domain -1.0...1.0

### (23) tBodyGyro-mean()-Z (Double)

mean body gyroscope recording in z direction in time domain -1.0...1.0

#### (24) tBodyGyro-std()-X (Double)

standard deviation of body gyroscope recording in x direction in time domain -1.0...1.0

#### (25) tBodyGyro-std()-Y (Double)

standard deviation of body gyroscope recording in y direction in time domain -1.0...1.0

# (26) tBodyGyro-std()-Z (Double)

standard deviation of body gyroscope recording in z direction in time domain -1.0...1.0

### (27) tBodyGyroJerk-mean()-X (Double)

mean body jerk by gyroscope recording in x direction in time domain -1.0...1.0

### (28) tBodyGyroJerk-mean()-Y (Double)

mean body jerk by gyroscope recording in y direction in time domain -1.0...1.0

### (29) tBodyGyroJerk-mean()-Z (Double)

mean body jerk by gyroscope recording in z direction in time domain -1.0...1.0

### (30) tBodyGyroJerk-std()-X (Double)

standard deviation of body jerk by gyroscope recording in x direction in time domain -1.0...1.0

#### (31) tBodyGyroJerk-std()-Y (Double)

standard deviation of body jerk by gyroscope recording in y direction in time domain -1.0...1.0

#### (32) tBodyGyroJerk-std()-Z (Double)

standard deviation of body jerk by gyroscope recording in z direction in time domain -1.0...1.0

### (33) tBodyAccMag-mean() (Double)

mean body magnitude by accelerometer recording in time domain -1.0...1.0

#### (34) tBodyAccMag-std() (Double)

standard deviation of body magnitude by accelerometer recording in time domain -1.0...1.0

#### (35) tGravityAccMag-mean() (Double)

mean gravity magnitude by accelerometer recording in time domain -1.0...1.0

### (36) tGravityAccMag-std() (Double)

standard deviation of gravity magnitude by accelerometer recording in time domain -1.0...1.0

## (37) tBodyAccJerkMag-mean() (Double)

mean body jerk magnitude by accelerometer recording in time domain -1.0...1.0

## (38) tBodyAccJerkMag-std() (Double)

standard deviation of body jerk magnitude by accelerometer recording in time domain -1.0...1.0

#### (39) tBodyGyroMag-mean() (Double)

mean body magnitude by gyroscope recording in time domain -1.0...1.0

### (40) tBodyGyroMag-std() (Double)

standard deviation of body magnitude by gyroscope recording in time domain -1.0...1.0

## (41) tBodyGyroJerkMag-mean() (Double)

mean body magnitude by gravity recording in time domain

-1.0...1.0

# (42) tBodyGyroJerkMag-std() (Double)

standard deviation of body magnitude by gravity recording in time domain -1.0...1.0

### (43) fBodyAcc-mean()-X (Double)

mean body accelerometer recording in x direction in frequency domain -1.0...1.0

## (44) fBodyAcc-mean()-Y (Double)

mean body accelerometer recording in y direction in frequency domain -1.0...1.0

# (45) fBodyAcc-mean()-Z (Double)

mean body accelerometer recording in z direction in frequency domain -1.0...1.0

# (46) fBodyAcc-std()-X (Double)

standard deviation of body accelerometer recording in x direction in frequency domain -1.0...1.0

## (47) fBodyAcc-std()-Y (Double)

standard deviation of body accelerometer recording in y direction in frequency domain -1.0...1.0

### (48) fBodyAcc-std()-Z (Double)

standard deviation of body accelerometer recording in z direction in frequency domain -1.0...1.0

# (49) fBodyAcc-meanFreq()-X (Double)

mean frequency of body accelerometer recording in x direction -1.0...1.0

#### (50) fBodyAcc-meanFreq()-Y (Double)

mean frequency of body accelerometer recording in y direction -1.0...1.0

#### (51) fBodyAcc-meanFreq()-Z (Double)

mean frequency of body accelerometer recording in z direction -1.0...1.0

### (52) fBodyAccJerk-mean()-X (Double)

mean body jerk accelerometer recording in x direction in frequency domain -1.0...1.0

## (53) fBodyAccJerk-mean()-Y (Double)

mean body jerk accelerometer recording in y direction in frequency domain -1.0...1.0

# (54) fBodyAccJerk-mean()-Z (Double)

mean body jerk accelerometer recording in z direction in frequency domain -1.0...1.0

#### (55) fBodyAccJerk-std()-X (Double)

standard deviation of body jerk accelerometer recording in x direction in frequency domain -1.0...1.0

# (56) fBodyAccJerk-std()-Y (Double)

standard deviation of body jerk accelerometer recording in y direction in frequency domain -1.0...1.0

## (57) fBodyAccJerk-std()-Z (Double)

standard deviation of body jerk accelerometer recording in z direction in frequency domain -1.0...1.0

# (58) fBodyAccJerk-meanFreq()-X (Double)

mean frequency of body jerk accelerometer recording in x direction -1.0...1.0

### (59) fBodyAccJerk-meanFreq()-Y (Double)

mean frequency of body jerk accelerometer recording in y direction -1.0...1.0

### (60) fBodyAccJerk-meanFreq()-Z (Double)

mean frequency of body jerk accelerometer recording in z direction -1.0...1.0

### (61) fBodyGyro-mean()-X (Double)

mean body gyroscope recording in x direction in frequency domain -1.0...1.0

# (62) fBodyGyro-mean()-Y (Double)

mean body gyroscope recording in y direction in frequency domain -1.0...1.0

#### (63) fBodyGyro-mean()-Z (Double)

mean body gyroscope recording in z direction in frequency domain -1.0...1.0

#### (64) fBodyGyro-std()-X (Double)

standard deviation of body gyroscope recording in x direction in frequency domain -1.0...1.0

# (65) fBodyGyro-std()-Y (Double)

standard deviation of body gyroscope recording in y direction in frequency domain -1.0...1.0

## (66) fBodyGyro-std()-Z (Double)

standard deviation of body gyroscope recording in z direction in frequency domain -1.0...1.0

## (67) fBodyGyro-meanFreq()-X (Double)

mean body gyroscope recording in x direction in frequency domain -1.0...1.0

#### (68) fBodyGyro-meanFreq()-Y (Double)

mean body gyroscope recording in y direction in frequency domain -1.0...1.0

### (69) fBodyGyro-meanFreg()-Z (Double)

mean body gyroscope recording in z direction in frequency domain -1.0...1.0

## (70) fBodyAccMag-mean() (Double)

magnitude of mean body accelerometer recording in frequency domain -1.0...1.0

(71) fBodyAccMag-std() (Double) magnitude of standard deviation body accelerometer recording in frequency domain -1.0...1.0

(72) fBodyAccMag-meanFreq() (Double) mean frequency of body accelerometer recording -1.0...1.0

(73) fBodyAccJerkMag-mean() (Double) mean of body jerk accelerometer recording in frequency domain -1.0...1.0

(74) fBodyAccJerkMag-std() (Double) standard deviation of body jerk accelerometer recording in frequency domain -1.0...1.0

(75) fBodyAccJerkMag-meanFreq() (Double) magnitude of mean frequency of body jerk accelerometer recording -1.0...1.0

(76) fBodyGyroMag-mean() (Double) magnitude of mean body gyroscope recording -1.0...1.0

(77) fBodyGyroMag-std() (Double) magnitude if body gyroscope recording -1.0...1.0

(78) fBodyGyroMag-meanFreq() (Double) mean frequency magnitude of body gyroscope recording -1.0...1.0

(79) fBodyGyroJerkMag-mean() (Double) magnitude of mean frequency of body jerk gyroscope recording -1.0...1.0

(80) fBodyGyroJerkMag-std() (Double) magnitude of standard deviation of body gyroscope recording -1.0...1.0

(81) fBodyGyroJerkMag-meanFreq()(Double) mean frequency magnitude of body jerk gyroscope recording -1.0...1.0