DATA DICTIONARY - SENSOR DATA FROM SAMSUNG GALAXY SII

Activity:
   Activity that was being performed by the test subject
       LAYING
       SITTING
       STANDING
       WALKING
       WALKING_DOWNSTAIRS
       WALKING_UPSTAIRS

Subject:
    Test subject whose variables were being measured. Even values mean they come
    from test data set, while odd values mean they come from training set.
        1..30

tBodyAcc-mean()-X
    Average value on the [redacted]domain per activity of the mean acceleration
    on the x-axis for each subject.
        0.2216..0.3015

tBodyAcc-mean()-Y
    Average value on the [redacted]domain per activity of the mean acceleration
    on the y-axis for each subject.
        -0.040514..-0.01308

tBodyAcc-mean()-Z
    Average value on the [redacted]domain per activity of the mean acceleration
    on the z-axis for each subject.
        -0.15251..-0.07538

tGravityAcc-mean()-X
    Average value on the [redacted]domain per activity of the mean gravity
    acceleration on the x-axis for each subject.
        -0.6800..0.9475

tGravityAcc-mean()-Y
    Average value on the [redacted]domain per activity of the mean gravity
    acceleration on the y-axis for each subject.
        -0.47989..0.95659

tGravityAcc-mean()-Z
    Average value on the [redacted]domain per activity of the mean gravity
    acceleration on the z-axis for each subject.
        -0.4509..0.95787

tBodyAccJerk-mean()-X
    Average value on the [redacted]domain per activity of the mean acceleration jerk
    on the x-axis for each subject.
        0.04269..0.13019

tBodyAccJerk-mean()-Y
    Average value on the [redacted]domain per activity of the mean acceleration jerk
    on the y-axis for each subject.
        -0.0386872..0.0568186

tBodyAccJerk-mean()-Z
    Average value on the [redacted]domain per activity of the mean acceleration jerk
    on the z-axis for each subject.
        -0.067458..0.038053

tBodyGyro-mean()-X
    Average value on the [redacted]domain per activity of the mean measure by the
    gyroscope on the x-axis for each subject.
        -0.20578..0.19270

tBodyGyro-mean()-Y
    Average value on the [redacted]domain per activity of the mean measure by the
    gyroscope on the y-axis for each subject.
        -0.20421..0.02747

tBodyGyro-mean()-Z
    Average value on the [redacted]domain per activity of the mean measure by the
    gyroscope on the z-axis for each subject.

        -0.07245..0.17910

tBodyGyroJerk-mean()-X
    Average value on the [redacted]domain per activity of the mean measured jerk by
    the gyroscope on the x-axis for each subject.
        -0.15721..-0.02209

tBodyGyroJerk-mean()-Y
    Average value on the [redacted]domain per activity of the mean measured jerk by
    the gyroscope on the y-axis for each subject.
        -0.07681..-0.01320

tBodyGyroJerk-mean()-Z
    Average value on the [redacted]domain per activity of the mean measured jerk by
    the gyroscope on the z-axis for each subject.
        -0.092500..-0.006941

tBodyAccMag-mean()
    Average value on the [redacted]domain per activity of the mean magnitude of body
    acceleration for each subject.
        -0.9865..0.6446

tGravityAccMag-mean()
    Average value on the [redacted]domain per activity of the mean magnitude of
    gravity acceleration for each subject.
        -0.9865..0.6446

tBodyAccJerkMag-mean()
    Average value on the [redacted]domain per activity of the mean magnitude of body
    acceleration jerk for each subject.
        -0.9928..0.4345

tBodyGyroMag-mean()
    Average value on the [redacted]domain per activity of the mean magnitude
    gyroscope measure for each subject.
        -0.9807..0.4180

tBodyGyroJerkMag-mean()
    Average value on the [redacted]domain per activity of the mean magnitude
    gyroscope jerk measure for each subject.
        -0.99732..0.08758

fBodyAcc-mean()-X
    Average value on the frequency domain per activity of the mean acceleration
    on the x-axis for each subject.
        -0.9952..0.5370

fBodyAcc-mean()-Y
    Average value on the frequency domain per activity of the mean acceleration
    on the y-axis for each subject.
        -0.98903..0.52419

fBodyAcc-mean()-Z
    Average value on the frequency domain per activity of the mean acceleration
    on the z-axis for each subject.
        -0.9895..0.2807

fBodyAcc-meanFreq()-X
    Average value per activity of the body acceleration's mean frequency on the
    x-axis.
        -0.63591..0.15912

fBodyAcc-meanFreq()-Y
    Average value per activity of the body acceleration's mean frequency on the
    y-axis.
        -0.379518..0.466528

fBodyAcc-meanFreq()-Z
    Average value per activity of the body acceleration's mean frequency on the
    z-axis.
        -0.52011..0.40253

fBodyAccJerk-mean()-X
    Average value on the frequency domain per activity of the mean acceleration

    jerk on the x-axis for each subject.
        -0.9946..0.4743

fBodyAccJerk-mean()-Y
    Average value on the frequency domain per activity of the mean acceleration
    jerk on the y-axis for each subject.
        -0.9894..0.2767

fBodyAccJerk-mean()-Z
    Average value on the frequency domain per activity of the mean acceleration
    jerk on the z-axis for each subject.
        -0.9920..0.1578

fBodyAccJerk-meanFreq()-X
    Average value per activity of the body acceleration jerk's mean frequency on the
    x-axis.
        -0.57604..0.33145

fBodyAccJerk-meanFreq()-Y
    Average value per activity of the body acceleration jerk's mean frequency on the
    y-axis.
        -0.60197..0.19568

fBodyAccJerk-meanFreq()-Z
    Average value per activity of the body acceleration jerk's mean frequency on the
    z-axis.
        -0.62756..0.23011

fBodyGyro-mean()-X
    Average value on the frequency domain per activity of the mean measure by
    the gyroscope on the x-axis for each subject.
        -0.9931..0.4750

fBodyGyro-mean()-Y
    Average value on the frequency domain per activity of the mean measure by
    the gyroscope on the y-axis for each subject.
        -0.9940..0.3288

fBodyGyro-mean()-Z
    Average value on the frequency domain per activity of the mean measure by the
    gyroscope on the z-axis for each subject.
        -0.9860..0.4924

fBodyGyro-meanFreq()-X
    Average value per activity of the body gyro's measure's mean frequency on the
    x-axis.
        -0.395770..0.249209

fBodyGyro-meanFreq()-Y
    Average value per activity of the body gyro's measure's mean frequency on the
    y-axis.
        -0.66681..0.27314

fBodyGyro-meanFreq()-Z
    Average value per activity of the body gyro's measure's mean frequency on the
    z-axis.
        -0.50749..0.37707

fBodyAccMag-mean()
    Average value on the frequency domain per activity of the mean magnitude of body
    acceleration for each subject.
        -0.9868..0.5866

fBodyAccMag-meanFreq()
    Average value per activity of the body acceleration's magnitude mean
    frequency.
        -0.31234..0.43585

fBodyAccJerkMag-mean()
    Average value on the frequency domain per activity of the mean magnitude of body
    acceleration jerk for each subject.
        -0.9940..0.5384

fBodyBodyAccJerkMag-meanFreq()

    Average value per activity of the body acceleration jerk's magnitude mean
    frequency.
        -0.12521..0.48809

fBodyGyroMag-mean()
    Average value on the frequency domain per activity of the mean magnitude
    gyroscope measure for each subject.
        -0.9865..0.2040

fBodyBodyGyroMag-meanFreq()
    Average value per activity of the body gyroscope measure's magnitude mean
    frequency.
        -0.45664..0.40952

fBodyGyroJerkMag-mean()
    Average value on the frequency domain per activity of the mean magnitude
    gyroscope jerk measure for each subject.
        -0.9976..0.1466

fBodyBodyGyroJerkMag-meanFreq()
    Average value per activity of the body gyroscope measure's jerk's magnitude mean
    frequency.
        -0.18292..0.42630

tBodyAcc-std()-X
    Average value on the [redacted]domain per activity of the acceleration's standard deviation
    on the x-axis for each subject.
        -0.9961..0.6269

tBodyAcc-std()-Y
    Average value on the [redacted]domain per activity of the acceleration's standard deviation
    on the y-axis for each subject.
        -0.99024..0.61694

tBodyAcc-std()-Z
    Average value on the [redacted]domain per activity of the acceleration's standard deviation
    on the z-axis for each subject.
        -0.9877..0.6090

tGravityAcc-std()-X
    Average value on the [redacted]domain per activity of the gravity acceleration's
    standard deviation on the x-axis for each subject.
        -0.9968..-0.8296

tGravityAcc-std()-Y
    Average value on the [redacted]domain per activity of the gravity acceleration's
    standard deviation on the y-axis for each subject.
        -0.9942..-0.6436

tGravityAcc-std()-Z
    Average value on the [redacted]domain per activity of the gravity acceleration's
    standard deviation on the z-axis for each subject.
        -0.9910..-0.6102

tBodyAccJerk-std()-X
    Average value on the [redacted]domain per activity of the acceleration jerk's
    standard deviation on the x-axis for each subject.
        -0.9946..0.5443

tBodyAccJerk-std()-Y
    Average value on the [redacted]domain per activity of the acceleration jerk's
    standard deviation on the y-axis for each subject.
        -0.9895..0.3553

tBodyAccJerk-std()-Z
    Average value on the [redacted]domain per activity of the acceleration jerk's
    standard deviation on the z-axis for each subject.
        -0.99329..0.03102

tBodyGyro-std()-X
    Average value on the [redacted]domain per activity of the measure by the
    gyroscope's standard deviation on the x-axis for each subject.
        -0.9943..0.2677

tBodyGyro-std()-Y
    Average value on the [redacted]domain per activity of the measure by the
    gyroscope's standard deviation on the y-axis for each subject.
        -0.9942..0.4765

tBodyGyro-std()-Z
    Average value on the [redacted]domain per activity of the measure by the
    gyroscope's standard deviation on the z-axis for each subject.
        -0.9855..0.5649

tBodyGyroJerk-std()-X
    Average value on the [redacted]domain per activity of the measured jerk by
    the gyroscope's standard deviation on the x-axis for each subject.
        -0.9965..0.1791

tBodyGyroJerk-std()-Y
    Average value on the [redacted]domain per activity of the measured jerk by
    the gyroscope's standard deviation on the y-axis for each subject.
        -0.9971..0.2959

tBodyGyroJerk-std()-Z
    Average value on the [redacted]domain per activity of the measured jerk by
    the gyroscope's standard deviation on the z-axis for each subject.
        -0.9954..0.1932

tBodyAccMag-std()
    Average value on the [redacted]domain per activity of the magnitude of body
    acceleration's standard deviation for each subject.
        -0.9865..0.4284

tGravityAccMag-std()
    Average value on the [redacted]domain per activity of the magnitude of
    gravity acceleration's standard deviation for each subject.
        -0.9865..0.4284

tBodyAccJerkMag-std()
    Average value on the [redacted]domain per activity of the magnitude of body
    acceleration jerk's standard deviation for each subject.
        -0.9946..0.4506

tBodyGyroMag-std()
    Average value on the [redacted]domain per activity of the magnitude
    gyroscope measure's standard deviation for each subject.
        -0.9814..0.3000

tBodyGyroJerkMag-std()
    Average value on the [redacted]domain per activity of the magnitude
    gyroscope jerk measur's standard deviation for each subject.
        -0.9977..0.2502

fBodyAcc-std()-X
    Average value on the frequency domain per activity of the acceleration's standard deviation
    on the x-axis for each subject.
        -0.9966..0.6585

fBodyAcc-std()-Y
    Average value on the frequency domain per activity of the acceleration's standard deviation
    on the y-axis for each subject.
        -0.99068..0.56019

fBodyAcc-std()-Z
    Average value on the frequency domain per activity of the acceleration's standard deviation
    on the z-axis for each subject.
        -0.9872..0.6871

fBodyAccJerk-std()-X
    Average value on the frequency domain per activity of the acceleration jerk's
    standard deviation on the x-axis for each subject.
        -0.9951..0.4768

fBodyAccJerk-std()-Y
    Average value on the frequency domain per activity of the acceleration jerk's
    standard deviation on the y-axis for each subject.
        -0.9905..0.3498

fBodyAccJerk-std()-Z
    Average value on the frequency domain per activity of the acceleration jerk's
    standard deviation on the z-axis for each subject.
        -0.993108..-0.006236

fBodyGyro-std()-X
    Average value on the frequency domain per activity of the measure by the
    gyroscope's standard deviation on the x-axis for each subject.
        -0.9947..0.1966

fBodyGyro-std()-Y
    Average value on the frequency domain per activity of the measure by the
    gyroscope's standard deviation on the y-axis for each subject.
        -0.9944..0.6462

fBodyGyro-std()-Z
    Average value on the frequency domain per activity of the measure by the
    gyroscope's standard deviation on the z-axis for each subject.
        -0.9867..0.5225

fBodyAccMag-std()
    Average value on the frequency domain per activity of the magnitude of body
    acceleration's standard deviation for each subject.
        -0.9876..0.1787

fBodyAccJerkMag-std()
    Average value on the frequency domain per activity of the magnitude of body
    acceleration jerk's standard deviation for each subject.
        -0.9944..0.3163

fBodyGyroMag-std()
    Average value on the frequency domain per activity of the magnitude
    gyroscope measure's standard deviation for each subject.
        -0.9815..0.2367

fBodyGyroJerkMag-std()
    Average value on the frequency domain per activity of the magnitude
    gyroscope jerk measur's standard deviation for each subject.
        -0.9976..0.2878