Variable Name	Variable Description	Values
Subject	The ID number of the experiment volunteer.	
Activity	The activity performed for measurement	Walking Walking_Upstairs Walking_Downstairs Sitting Standing Laying
tBodyAcc.meanX	The mean of the time domain signal of the body acceleration in the x-axis direction	Mean of Observations
tBodyAcc.meanY	The mean of the time domain signal of the body acceleration in the y-axis direction	Mean of Observations
tBodyAcc.meanZ	The mean of the time domain signal of the body acceleration in the z-axis direction	Mean of Observations
tBodyAcc.stdX	The standard deviation of the time domain signal of the body acceleration in the x-axis direction	Mean of Observations
tBodyAcc.stdY	The standard deviation of the time domain signal of the body acceleration in the y-axis direction	Mean of Observations
tBodyAcc.stdZ	The standard deviation of the time domain signal of the body acceleration in the z-axis direction	Mean of Observations
tGravityAcc.meanX	The mean of the time domain signal of the gravity acceleration in the x-axis direction	Mean of Observations
tGravityAcc.meanY	The mean of the time domain signal of the gravity acceleration in the y-axis direction	Mean of Observations
tGravityAcc.meanZ	The mean of the time domain signal of the gravity acceleration in the z-axis direction	Mean of Observations
tGravityAcc.stdX	The standard deviation of the time domain signal of the gravity acceleration in the x-axis direction	Mean of Observations
tGravityAcc.stdY	The standard deviation of the time domain signal of the gravity acceleration in the y-axis direction	Mean of Observations
tGravityAcc.stdZ	The standard deviation of the time domain signal of the gravity acceleration in the z-axis direction	Mean of Observations
tBodyAccJerk.meanX	The mean of the time domain signal of the body acceleration Jerk signal in the x-axis direction	Mean of Observations
tBodyAccJerk.meanY	The mean of the time domain signal of the body acceleration Jerk signal in the y-axis direction	Mean of Observations
tBodyAccJerk.meanZ	The mean of the time domain signal of the body acceleration Jerk signal in the z-axis direction	Mean of Observations

tBodyAccJerk.stdX		
	The standard deviation of the time domain signal of the body acceleration Jerk signal in	Mean of Observations
	the x-axis direction	
tBodyAccJerk.stdY	The standard deviation of the time domain	Mean of Observations
	signal of the body acceleration Jerk signal in	
	the y-axis direction	
tBodyAccJerk.stdZ	The standard deviation of the time domain	Mean of Observations
•	signal of the body acceleration Jerk signal in	
	the z-axis direction	
tBodyGyro.meanX	The mean of the time domain signal of the	Mean of Observations
, . ,	body angular velocity in the x-axis direction	
tBodyGyro.meanY	The mean of the time domain signal of the	Mean of Observations
	body angular velocity in the y-axis direction	
tBodyGyro.meanZ	The mean of the time domain signal of the	Mean of Observations
ibody dyro.incum2	body angular velocity in the z-axis direction	ivican or observations
tBodyGyro.stdX	The standard deviation of the time domain	Mean of Observations
ibodydyro.stax	signal of the body angular velocity in the x-axis	ivicali di Observations
	direction	
tBodyGyro.stdY	The standard deviation of the time domain	Mean of Observations
ibody dy ro.sta r	signal of the body angular velocity in the y-axis	ivican of Observations
	direction	
tBodyGyro.stdZ	The standard deviation of the time domain	Mean of Observations
tbodydyro.sta2		ivicali di Observations
	signal of the body angular velocity in the z-axis direction	
tDodyCyrologly mann V		Maan of Observations
tBodyGyroJerk.meanX	The mean of the time domain signal of the	Mean of Observations
	l bady anaylar valasity lark sianal in that yearis	
	body angular velocity Jerk signal in the x-axis	
	direction	Mana of Observations
tBodyGyroJerk.meanY	direction The mean of the time domain signal of the	Mean of Observations
tBodyGyroJerk.meanY	direction The mean of the time domain signal of the body angular velocity Jerk signal in the y-axis	Mean of Observations
	direction The mean of the time domain signal of the body angular velocity Jerk signal in the y-axis direction	
tBodyGyroJerk.meanY tBodyGyroJerk.meanZ	direction The mean of the time domain signal of the body angular velocity Jerk signal in the y-axis direction The mean of the time domain signal of the	Mean of Observations Mean of Observations
	direction The mean of the time domain signal of the body angular velocity Jerk signal in the y-axis direction The mean of the time domain signal of the body angular velocity Jerk signal in the z-axis	
tBodyGyroJerk.meanZ	direction The mean of the time domain signal of the body angular velocity Jerk signal in the y-axis direction The mean of the time domain signal of the body angular velocity Jerk signal in the z-axis direction	Mean of Observations
	direction The mean of the time domain signal of the body angular velocity Jerk signal in the y-axis direction The mean of the time domain signal of the body angular velocity Jerk signal in the z-axis direction The standard deviation of the time domain	
tBodyGyroJerk.meanZ	direction The mean of the time domain signal of the body angular velocity Jerk signal in the y-axis direction The mean of the time domain signal of the body angular velocity Jerk signal in the z-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in	Mean of Observations
tBodyGyroJerk.meanZ	direction The mean of the time domain signal of the body angular velocity Jerk signal in the y-axis direction The mean of the time domain signal of the body angular velocity Jerk signal in the z-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in the x-axis direction	Mean of Observations Mean of Observations
tBodyGyroJerk.meanZ	direction The mean of the time domain signal of the body angular velocity Jerk signal in the y-axis direction The mean of the time domain signal of the body angular velocity Jerk signal in the z-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in	Mean of Observations
tBodyGyroJerk.meanZ tBodyGyroJerk.stdX	direction The mean of the time domain signal of the body angular velocity Jerk signal in the y-axis direction The mean of the time domain signal of the body angular velocity Jerk signal in the z-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in the x-axis direction	Mean of Observations Mean of Observations
tBodyGyroJerk.meanZ tBodyGyroJerk.stdX	direction The mean of the time domain signal of the body angular velocity Jerk signal in the y-axis direction The mean of the time domain signal of the body angular velocity Jerk signal in the z-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in the x-axis direction The standard deviation of the time domain	Mean of Observations Mean of Observations
tBodyGyroJerk.meanZ tBodyGyroJerk.stdX	direction The mean of the time domain signal of the body angular velocity Jerk signal in the y-axis direction The mean of the time domain signal of the body angular velocity Jerk signal in the z-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in the x-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in signal of the body angular velocity Jerk signal in	Mean of Observations Mean of Observations
tBodyGyroJerk.meanZ tBodyGyroJerk.stdX tBodyGyroJerk.stdY	direction The mean of the time domain signal of the body angular velocity Jerk signal in the y-axis direction The mean of the time domain signal of the body angular velocity Jerk signal in the z-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in the x-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in the y-axis direction	Mean of Observations Mean of Observations Mean of Observations
tBodyGyroJerk.meanZ tBodyGyroJerk.stdX tBodyGyroJerk.stdY	direction The mean of the time domain signal of the body angular velocity Jerk signal in the y-axis direction The mean of the time domain signal of the body angular velocity Jerk signal in the z-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in the x-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in the y-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in the y-axis direction	Mean of Observations Mean of Observations Mean of Observations
tBodyGyroJerk.meanZ tBodyGyroJerk.stdX tBodyGyroJerk.stdY	direction The mean of the time domain signal of the body angular velocity Jerk signal in the y-axis direction The mean of the time domain signal of the body angular velocity Jerk signal in the z-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in the x-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in the y-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in the z-axis direction	Mean of Observations Mean of Observations Mean of Observations
tBodyGyroJerk.meanZ tBodyGyroJerk.stdX tBodyGyroJerk.stdY	direction The mean of the time domain signal of the body angular velocity Jerk signal in the y-axis direction The mean of the time domain signal of the body angular velocity Jerk signal in the z-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in the x-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in the y-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in the z-axis direction The mean of the time domain signal of the	Mean of Observations Mean of Observations Mean of Observations Mean of Observations
tBodyGyroJerk.meanZ tBodyGyroJerk.stdX tBodyGyroJerk.stdY tBodyGyroJerk.stdZ tBodyAccMag.mean.	direction The mean of the time domain signal of the body angular velocity Jerk signal in the y-axis direction The mean of the time domain signal of the body angular velocity Jerk signal in the z-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in the x-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in the y-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in the z-axis direction The mean of the time domain signal of the body acceleration magnitude	Mean of Observations Mean of Observations Mean of Observations Mean of Observations Mean of Observations
tBodyGyroJerk.meanZ tBodyGyroJerk.stdX tBodyGyroJerk.stdY	The mean of the time domain signal of the body angular velocity Jerk signal in the y-axis direction The mean of the time domain signal of the body angular velocity Jerk signal in the z-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in the x-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in the y-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in the z-axis direction The mean of the time domain signal of the body acceleration magnitude The standard deviation of the time domain	Mean of Observations Mean of Observations Mean of Observations Mean of Observations
tBodyGyroJerk.meanZ tBodyGyroJerk.stdX tBodyGyroJerk.stdY tBodyGyroJerk.stdZ tBodyAccMag.mean.	direction The mean of the time domain signal of the body angular velocity Jerk signal in the y-axis direction The mean of the time domain signal of the body angular velocity Jerk signal in the z-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in the x-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in the y-axis direction The standard deviation of the time domain signal of the body angular velocity Jerk signal in the z-axis direction The mean of the time domain signal of the body acceleration magnitude	Mean of Observations Mean of Observations Mean of Observations Mean of Observations Mean of Observations

tGravityAccMag.std.	The standard deviation of the time domain	Mean of Observations
	signal of the gravity acceleration magnitude	
tBodyAccJerkMag.mean.	The mean of the time domain signal of the	Mean of Observations
	body acceleration Jerk signal magnitude	
tBodyAccJerkMag.std.	The standard deviation of the time domain	Mean of Observations
	signal of the body acceleration Jerk signal	
	magnitude	
tBodyGyroMag.mean.	The mean of the time domain signal of the	Mean of Observations
	body angular velocity magnitude	
tBodyGyroMag.std.	The standard deviation of the time domain	Mean of Observations
	signal of the body angular velocity magnitude	
tBodyGyroJerkMag.mean.	The mean of the time domain signal of the	Mean of Observations
	body angular velocity Jerk signal magnitude	
tBodyGyroJerkMag.std.	The standard deviation of the time domain	Mean of Observations
	signal of the body angular velocity Jerk signal	
	magnitude	
fBodyAcc.meanX	The mean of the frequency domain signal of	Mean of Observations
	the body acceleration in the x-axis direction	
fBodyAcc.meanY	The mean of the frequency domain signal of	Mean of Observations
	the body acceleration in the y-axis direction	
fBodyAcc.meanZ	The mean of the frequency domain signal of	Mean of Observations
•	the body acceleration in the z-axis direction	
fBodyAcc.stdX	The standard deviation of the frequency	Mean of Observations
•	domain signal of the body acceleration in the x-	
	axis direction	
fBodyAcc.stdY	The standard deviation of the frequency	Mean of Observations
	domain signal of the body acceleration in the y-	
	axis direction	
fBodyAcc.stdZ	The standard deviation of the frequency	Mean of Observations
	domain signal of the body acceleration in the z-	
	axis direction	
fBodyAccJerk.meanX	The mean of the frequency domain signal of	Mean of Observations
	the body acceleration Jerk signal in the x-axis	
	direction	
fBodyAccJerk.meanY	The mean of the frequency domain signal of	Mean of Observations
	the body acceleration Jerk signal in the y-axis	
	direction	
fBodyAccJerk.meanZ	The mean of the frequency domain signal of	Mean of Observations
	the body acceleration Jerk signal in the z-axis	
	direction	
fBodyAccJerk.stdX	The standard deviation of the frequency	Mean of Observations
·	domain signal of the body acceleration Jerk	
	signal in the x-axis direction	
fBodyAccJerk.stdY	The standard deviation of the frequency	Mean of Observations
•	domain signal of the body acceleration Jerk	
	signal in the y-axis direction	
	Signal in the y axis uncerton	
fBodyAccJerk.stdZ	The standard deviation of the frequency	Mean of Observations

	signal in the z-axis direction	
fBodyGyro.meanX	The mean of the frequency domain signal of	Mean of Observations
	the body angular velocity in the x-axis direction	
fBodyGyro.meanY	The mean of the frequency domain signal of	Mean of Observations
•	the body angular velocity in the y-axis direction	
fBodyGyro.meanZ	The mean of the frequency domain signal of	Mean of Observations
	the body angular velocity in the z-axis direction	
fBodyGyro.stdX	The standard deviation of the frequency	Mean of Observations
	domain signal of the body angular velocity in	
	the x-axis direction	
fBodyGyro.stdY	The standard deviation of the frequency	Mean of Observations
	domain signal of the body angular velocity in	
	the y-axis direction	
fBodyGyro.stdZ	The standard deviation of the frequency	Mean of Observations
	domain signal of the body angular velocity in	
	the z-axis direction	
fBodyAccMag.mean.	The mean of the frequency domain signal of	Mean of Observations
	the body acceleration magnitude	
fBodyAccMag.std.	The standard deviation of the frequency	Mean of Observations
, -	domain signal of the body acceleration	
	magnitude	
fBodyBodyAccJerkMag.mean.	The mean of the frequency domain signal of	Mean of Observations
	the body acceleration Jerk signal magnitude	
fBodyBodyAccJerkMag.std.	The standard deviation of the frequency	Mean of Observations
· · · ·	domain signal of the body acceleration Jerk	
	signal magnitude	
fBodyBodyGyroMag.mean.	The mean of the frequency domain signal of	Mean of Observations
. , , .	the body angular velocity magnitude	
fBodyBodyGyroMag.std.	The standard deviation of the frequency	Mean of Observations
, , , ,	domain signal of the body angular velocity	
	magnitude	
fBodyBodyGyroJerkMag.mean.	The mean of the frequency domain signal of	Mean of Observations
	the body angular velocity Jerk signal magnitude	
fBodyBodyGyroJerkMag.std.	The standard deviation of the frequency	Mean of Observations
. , ,	domain signal of the body angular velocity Jerk	
	signal magnitude	