

SUMMARY:

The data summarizes the means of various measures of timed and fast Fourier transform for a combination of Subject, Activity and variable measure. Since there are 79 more variable combinations for each combination of a Subject and Activity (30 subjects and 6 activities), there are a total of 180 (30*6) rows and 81 (79+2) columns in the data.

Below is the description of each variable name.

Variable Name	Variable	Length	Values/Explanation
Subject	ID of test/train subject	1	Interger values
ActivityName	Descreptive Name of the Activity subject were involved in	18	LAYING
			SITTING
			STANDING
			WALKING
			WALKING_DOWNSTAIRS
			WALKING_UPSTAIRS
TimeBodyAcclerationMeanX	Average of Time Measure of Body Acceleration Averages in X axis	11	Calculated negative or positive float values
TimeBodyAcclerationMeanY	Average of Time Measure of Body Acceleration Averages in Y axis	11	Calculated negative or positive float values
TimeBodyAcclerationMeanZ	Average of Time Measure of Body Acceleration Averages in Z axis	11	Calculated negative or positive float values
TimeBodyAcclerationStDevX	Average of Time Measure of Body Acceleration Standard Deviation in X axis	11	Calculated negative or positive float values
TimeBodyAcclerationStDevY	Average of Time Measure of Body Acceleration Standard Deviation in Y axis	11	Calculated negative or positive float values
TimeBodyAcclerationStDevZ	Average of Time Measure of Body Acceleration Standard Deviation in Z axis	11	Calculated negative or positive float values
TimeGravityAcclerationMeanX	Average of Time Measure of Gravity	11	Calculated negative or positive float values

	Acceleration Averages in X axis		
TimeGravityAcclerationMeanY	Average of Time Measure of Gravity Acceleration Averages in Y axis	11	Calculated negative or positive float values
TimeGravityAcclerationMeanZ	Average of Time Measure of Gravity Acceleration Averages in Z axis	11	Calculated negative or positive float values
TimeGravityAcclerationStDevX	Average of Time Measure of Gravity Acceleration Standard Deviation in X axis	11	Calculated negative or positive float values
TimeGravityAcclerationStDevY	Average of Time Measure of Gravity Acceleration Standard Deviation in Y axis	11	Calculated negative or positive float values
TimeGravityAcclerationStDevZ	Average of Time Measure of Gravity Acceleration Standard Deviation in Z axis	11	Calculated negative or positive float values
TimeBodyAcclerationJerkMeanX	Average of Time Measure of Body Acceleration Jerk Mean in X axis	11	Calculated negative or positive float values
TimeBodyAcclerationJerkMeanY	Average of Time Measure of Body Acceleration Jerk Mean in Y axis	11	Calculated negative or positive float values
TimeBodyAcclerationJerkMeanZ	Average of Time Measure of Body Acceleration Jerk Mean in Z axis	11	Calculated negative or positive float values
TimeBodyAcclerationJerkStDevX	Average of Time Measure of Body Acceleration Jerk Standard Deviation in X axis	11	Calculated negative or positive float values
TimeBodyAcclerationJerkStDevY	Average of Time Measure of Body Acceleration Jerk Standard Deviation in Y axis	11	Calculated negative or positive float values
TimeBodyAcclerationJerkStDevZ	Average of Time Measure of Body Acceleration Jerk	11	Calculated negative or positive float values

	Standard Deviation in Z axis		
TimeBodyGyroMeanX	Average of Time Measure of Body Gyro Mean in X axis	11	Calculated negative or positive float values
TimeBodyGyroMeanY	Average of Time Measure of Body Gyro Mean in Y axis	11	Calculated negative or positive float values
TimeBodyGyroMeanZ	Average of Time Measure of Body Gyro Mean in Z axis	11	Calculated negative or positive float values
TimeBodyGyroStDevX	Average of Time Measure of Body Gyro Standard Deviation in X axis	11	Calculated negative or positive float values
TimeBodyGyroStDevY	Average of Time Measure of Body Gyro Standard Deviation in Y axis	11	Calculated negative or positive float values
TimeBodyGyroStDevZ	Average of Time Measure of Body Gyro Standard Deviation in Z axis	11	Calculated negative or positive float values
TimeBodyGyroJerkMeanX	Average of Time Measure of Body Gyro Jerk Mean in X axis	11	Calculated negative or positive float values
TimeBodyGyroJerkMeanY	Average of Time Measure of Body Gyro Jerk Mean in Y axis	11	Calculated negative or positive float values
TimeBodyGyroJerkMeanZ	Average of Time Measure of Body Gyro Jerk Mean in Z axis	11	Calculated negative or positive float values
TimeBodyGyroJerkStDevX	Average of Time Measure of Body Gyro Jerk Standard Deviation in X axis	11	Calculated negative or positive float values
TimeBodyGyroJerkStDevY	Average of Time Measure of Body Gyro Jerk Standard Deviation in Y axis	11	Calculated negative or positive float values
TimeBodyGyroJerkStDevZ	Average of Time Measure of Body Gyro Jerk Standard Deviation in Z axis	11	Calculated negative or positive float values
TimeBodyAcclerationMagMean	Average of Time Measure of Body	11	Calculated negative or positive float values

	Acceleration Magnitude Means		
TimeBodyAcclerationMagStDev	Average of Time Measure of Body Acceleration Magnitude Standard Deviations	11	Calculated negative or positive float values
TimeGravityAcclerationMagMean	Average of Time Measure of Gravity Acceleration Magnitude Means	11	Calculated negative or positive float values
TimeGravityAcclerationMagStDev	Average of Time Measure of Gravity Acceleration Magnitude Standard Deviations	11	Calculated negative or positive float values
TimeBodyAcclerationJerkMagMean	Average of Time Measure of Body Acceleration Jerk Magnitude Means	11	Calculated negative or positive float values
TimeBodyAcclerationJerkMagStDev	Average of Time Measure of Body Acceleration Jerk Magnitude Standard Deviations	11	Calculated negative or positive float values
TimeBodyGyroMagMean	Average of Time Measure of Body Gyro Magnitude Mean in X axis	11	Calculated negative or positive float values
TimeBodyGyroMagStDev	Average of Time Measure of Body Gyro Magnitude Standard Deviation in Y axis	11	Calculated negative or positive float values
TimeBodyGyroJerkMagMean	Average of Time Measure of Body Gyro Jerk Magnitude Mean in X axis	11	Calculated negative or positive float values
TimeBodyGyroJerkMagStDev	Average of Time Measure of Body Gyro Jerk Magnitude Standard Deviation in Y axis	11	Calculated negative or positive float values
FTPBodyAcclerationMeanX	Average of Fast Fourier Transform Measure of Body Gyro Jerk Mean in X axis	11	Calculated negative or positive float values
FTPBodyAcclerationMeanY	Average of Fast Fourier Transform Measure of Body Gyro Jerk Mean in Y axis	11	Calculated negative or positive float values

FTPBodyAcclerationMeanZ	Average of Fast Fourier Transform Measure of Body Gyro Jerk Mean in Z axis	11	Calculated negative or positive float values
FTPBodyAcclerationStDevX	Average of Fast Fourier Transform Measure of Body Gyro Jerk Standard Deviation in X axis	11	Calculated negative or positive float values
FTPBodyAcclerationStDevY	Average of Fast Fourier Transform Measure of Body Gyro Jerk Standard Deviation in Y axis	11	Calculated negative or positive float values
FTPBodyAcclerationStDevZ	Average of Fast Fourier Transform Measure of Body Gyro Jerk Standard Deviation in Z axis	11	Calculated negative or positive float values
FTPBodyAcclerationMeanFreqX	Average of Fast Fourier Transform Measure of Body Acceleration Mean in X axis	11	Calculated negative or positive float values
FTPBodyAcclerationMeanFreqY	Average of Fast Fourier Transform Measure of Body Acceleration Mean in Y axis	11	Calculated negative or positive float values
FTPBodyAcclerationMeanFreqZ	Average of Fast Fourier Transform Measure of Body Acceleration Mean in Z axis	11	Calculated negative or positive float values
FTPBodyAcclerationJerkMeanX	Average of Fast Fourier Transform Measure of Body Acceleration Jerk Mean in X axis	11	Calculated negative or positive float values
FTPBodyAcclerationJerkMeanY	Average of Fast Fourier Transform Measure of Body Acceleration Jerk Mean in Y axis	11	Calculated negative or positive float values
FTPBodyAcclerationJerkMeanZ	Average of Fast Fourier Transform Measure of Body Acceleration Jerk Mean in Z axis	11	Calculated negative or positive float values
FTPBodyAcclerationJerkStDevX	Average of Fast Fourier Transform Measure of Body Acceleration Jerk Standard Deviation in X axis	11	Calculated negative or positive float values
FTPBodyAcclerationJerkStDevY	Average of Fast Fourier Transform Measure of	11	Calculated negative or positive float values

	Body Acceleration Jerk Standard Deviation in Y axis		
FTPBodyAcclerationJerkStDevZ	Average of Fast Fourier Transform Measure of Body Acceleration Jerk Standard Deviation in Z axis	11	Calculated negative or positive float values
FTPBodyAcclerationJerkMeanFreqX	Average of Fast Fourier Transform Measure of Body Acceleration Jerk Mean Frequency in X axis	11	Calculated negative or positive float values
FTPBodyAcclerationJerkMeanFreqY	Average of Fast Fourier Transform Measure of Body Acceleration Jerk Mean Frequency in Y axis	11	Calculated negative or positive float values
FTPBodyAcclerationJerkMeanFreqZ	Average of Fast Fourier Transform Measure of Body Acceleration Jerk Mean Frequency in Z axis	11	Calculated negative or positive float values
FTPBodyGyroMeanX	Average of Fast Fourier Transform Measure of Body Gyro Mean in X axis	11	Calculated negative or positive float values
FTPBodyGyroMeanY	Average of Fast Fourier Transform Measure of Body Gyro Mean in Y axis	11	Calculated negative or positive float values
FTPBodyGyroMeanZ	Average of Fast Fourier Transform Measure of Body Gyro Mean in Z axis	11	Calculated negative or positive float values
FTPBodyGyroStDevX	Average of Fast Fourier Transform Measure of Body Gyro Standard Deviation in X axis	11	Calculated negative or positive float values
FTPBodyGyroStDevY	Average of Fast Fourier Transform Measure of Body Gyro Standard Deviation in Y axis	11	Calculated negative or positive float values
FTPBodyGyroStDevZ	Average of Fast Fourier Transform Measure of Body Gyro Standard Deviation in Z axis	11	Calculated negative or positive float values

FTPBodyGyroMeanFreqX	Average of Fast Fourier Transform Measure of Body Gyro Mean Frequency in X axis	11	Calculated negative or positive float values
FTPBodyGyroMeanFreqY	Average of Fast Fourier Transform Measure of Body Gyro Mean Frequency in Y axis	11	Calculated negative or positive float values
FTPBodyGyroMeanFreqZ	Average of Fast Fourier Transform Measure of Body Gyro Mean Frequency in Z axis	11	Calculated negative or positive float values
FTPBodyAcclerationMagMean	Average of Fast Fourier Transform Measure of Body Acceleration Magnitude Mean	11	Calculated negative or positive float values
FTPBodyAcclerationMagStDev	Average of Fast Fourier Transform Measure of Body Acceleration Magnitude Standard Deviation	11	Calculated negative or positive float values
FTPBodyAcclerationMagMeanFreq	Average of Fast Fourier Transform Measure of Body Acceleration Magnitude Mean Frequency	11	Calculated negative or positive float values
FreqBodyAccJerkMagMean	Average of Frequency Measure of Body Acceleration Jerk Magnitude Mean	11	Calculated negative or positive float values
FreqBodyAccJerkMagStDev	Average of Frequency Measure of Body Acceleration Jerk Magnitude Standard Deviation	11	Calculated negative or positive float values
FreqBodyAccJerkMagMeanFreq	Average of Frequency Measure of Body Acceleration Jerk Magnitude Mean Frequency	11	Calculated negative or positive float values
FreqBodyGyroMagMean	Average of Frequency Measure of Body Acceleration Jerk Magnitude Mean	11	Calculated negative or positive float values
FreqBodyGyroMagStDev	Average of Frequency Measure of Body Acceleration Jerk	11	Calculated negative or positive float values

	Magnitude Standard Deviation		
FreqBodyGyroMagMeanFreq	Average of Frequency Measure of Body Acceleration Jerk Magnitude Mean Frequency	11	Calculated negative or positive float values
FreqBodyGyroJerkMagMean	Average of Frequency Measure of Body Gyro Jerk Magnitude Mean	11	Calculated negative or positive float values
FreqBodyGyroJerkMagStDev	Average of Frequency Measure of Body Gyro Jerk Magnitude Standard Deviation	11	Calculated negative or positive float values
FreqBodyGyroJerkMagMeanFreq	Average of Frequency Measure of Body Gyro Jerk Magnitude Mean Frequency	11	Calculated negative or positive float values