Variable Name	Explanation	Values	Notes
subject	Identifies the subject who performed the activity	1 - 30	
activity	Identifies which of the six activities listed in "activity_labels.txt" the subject carried out	WALKING WALKING_UPSTAIRS WALKING_DOWNSTAIRS SITTING STANDING LAYING	
variable	Identifies which motion was being observed. These are split into the mean and standard deviation for each motion	See Table 2 In all cases the value obtained is either the mean or standard deviation (std) as designated in the variable name	"feature_selection.txt" provides further details on the features
mean	The average value for variable. Values are shown after subsetting by subject and activity	See SamsungClean.txt for values	

Variable	Time / Frequency	Explanation	Units
X.tBodyAcc-mean()-X X.tBodyAcc-mean()-Y X.tBodyAcc-mean()-Z X.tBodyAcc-std()-X X.tBodyAcc-std()-Y X.tBodyAcc-std()-Z	Time	Body acceleration where gravity is subtracted from total acceleration in the x,y,z-axes	g
X.tGravityAcc-mean()-X X.tGravityAcc-mean()-Y X.tGravityAcc-mean()-Z X.tGravityAcc-std()-X X.tGravityAcc-std()-Y X.tGravityAcc-std()-Z		Acceleration due to gravity in the x,y,z-axes	
X.tBodyAccJerk-mean()-X X.tBodyAccJerk-mean()-Y X.tBodyAccJerk-mean()-Z X.tBodyAccJerk-std()-X		Jerk of the body acceleration	

X (D 1 A 1 1 (1/) X			1
X.tBodyAccJerk-std()-Y	-		
X.tBodyAccJerk-std()-Z	-	Angular velocity of the body	ma J / -
X.tBodyGyro-mean()-X	-		rad/s
X.tBodyGyro-mean()-Y		the body	
X.tBodyGyro-mean()-Z			
X.tBodyGyro-std()-X			
X.tBodyGyro-std()-Y			
X.tBodyGyro-std()-Z			-
X.tBodyGyroJerk-mean()-X		Jerk of the angular	
X.tBodyGyroJerk-mean()-Y		velocity of the body	
X.tBodyGyroJerk-mean()-Z			
X.tBodyGyroJerk-std()-X			
X.tBodyGyroJerk-std()-Y			
X.tBodyGyroJerk-std()-Z			
X.tBodyAccMag-mean()		Magnitude of the	g
V +Pody A asMos std()		body acceleration vector	
X.tBodyAccMag-std() V.tCravityAccMag-macn()	_	Magnitude of the	<u> </u>
X.tGravityAccMag-mean()		gravity acceleration	
X.tGravityAccMag-std()		vector	
X.tBodyAccJerkMag-mean()		Magnitude of the jerk	
V.D. I. A. J. I.M. a. at 1()		of the body	
X.tBodyAccJerkMag-std()		acceleration vector Magnitude of the	rad/s
X.tBodyGyroMag-mean()	-	angular velocity of	Tau/3
X.tBodyGyroMag-std()		the body	
X.tBodyGyroJerkMag-mean()		Magnitude of the jerk	
W.D.I.G. I.IM. 410		of the angular	
X.tBodyGyroJerkMag-std()	Frequency	velocity vector Body acceleration	σ
X.fBodyAcc-mean()-X	rrequency	where gravity is	g
X.fBodyAcc-mean()-Y	_	subtracted from total	
X.fBodyAcc-mean()-Z	_	acceleration in the	
X.fBodyAcc-std()-X		x,y,z-axes	
X.fBodyAcc-std()-Y			
X.fBodyAcc-std()-Z	-	A C C	
X.fBodyAcc-meanFreq()-X	-	Average frequency of body acceleration	Hz
X.fBodyAcc-meanFreq()-Y	_	body acceleration	
X.fBodyAcc-meanFreq()-Z	4		
X.fBodyAccJerk-mean()-X	1	Jerk of the body	g
X.fBodyAccJerk-mean()-Y		acceleration	
TV (T) 1 A T 1 (\ 7			
X.fBodyAccJerk-mean()-Z			
X.fBodyAccJerk-mean()-Z X.fBodyAccJerk-std()-X			

X.fBodyAccJerk-std()-Z		
X.fBodyAccJerk-meanFreq()-X	Average frequency of	Hz
X.fBodyAccJerk-meanFreq()-Y	jerk of body	
X.fBodyAccJerk-meanFreq()-Z	acceleration	
X.fBodyGyro-mean()-X	Angular velocity of	rad/s
X.fBodyGyro-mean()-Y	the body	,
X.fBodyGyro-mean()-Z		
X.fBodyGyro-std()-X		
X.fBodyGyro-std()-Y		
X.fBodyGyro-std()-Z		
X.fBodyGyro-meanFreq()-X	Average frequency of	Hz
X.fBodyGyro-meanFreq()-Y	angular velocity of	
X.fBodyGyro-meanFreq()-Z	body	
X.fBodyAccMag-mean()	Magnitude of the	g
	body acceleration	
X.fBodyAccMag-std()	vector	
	Average frequency of	Hz
X.fBodyAccMag-meanFreq()	magnitude of body acceleration	
X.fBodyBodyAccJerkMag-mean()	Magnitude of the jerk	g
	of the body	
X.fBodyBodyAccJerkMag-std()	acceleration vector	
X.fBodyBodyAccJerkMag-	Average frequency of	Hz
meanFreq()	magnitude of the jerk of body acceleration	
X.fBodyBodyGyroMag-mean()	Magnitude of the	rad/s
Tin Body Body Cyrolling Inchi()	angular velocity of	,
X.fBodyBodyGyroMag-std()	the body	
	Average frequency of	Hz
X.fBodyBodyGyroMag-meanFreq()	magnitude of angular velocity	
X.fBodyBodyGyroJerkMag-mean()	Magnitude of the jerk	rad/s
7Dody Dody Gyroserkinag-mean()	of the angular	
X.fBodyBodyGyroJerkMag-std()	velocity vector	
X.fBodyBodyGyroJerkMag-	Average frequency of	Hz
	magnitude of jerk of	
meanFreq()	the angular velocity	