This datafile has been produced for the Week 4 assignment of Getting and Clearing Data, part of the Data Science Specialisation course run by John Hopkins University on Coursera

The file has been created from data obtained here:
https://d396qusza40orc.cloudfront.net/getdata%2Fprojectfiles%2FUCI%20HAR%20Dataset.zip

Further information on the underlying data can be found here:
http://archive.ics.uci.edu/ml/datasets/Human+Activity+Recognition+Using+Smartphones

Field definitions

subject	This field contains the subject number for each of the 30 volunteers who carried out the experiment
activity	This field contains the activity number (1 = WALKING, 2 = WALKING_UPSTAIRS, 3 = WALKING_DOWNSTAIRS, 4 = SITTING, 5 = STANDING, LAYING)
timeBodyAccelerometer-mean()-X	Time domain record from the accelerometer in the X direction , body signal - mean value
timeBodyAccelerometer-mean()-Y	Time domain record from the accelerometer in the Y direction , body signal- mean value
timeBodyAccelerometer-mean()-Z	Time domain record from the accelerometer in the Z direction , body signal- mean value
timeBodyAccelerometer-std()-X	Time domain record from the accelerometer in the X direction , body signal - standard deviation
timeBodyAccelerometer-std()-Y	Time domain record from the accelerometer in the Y direction , body signal- standard deviation
timeBodyAccelerometer-std()-Z	Time domain record from the accelerometer in the Z direction , body signal- standard deviation
timeGravityAccelerometer-mean()-X	Time domain record from the accelerometer in the X direction , gravity signal - mean value
timeGravityAccelerometer-mean()-Y	Time domain record from the accelerometer in the Y direction , gravity signal- mean value
timeGravityAccelerometer-mean()-Z	Time domain record from the accelerometer in the Z direction , gravity signal- mean value
timeGravityAccelerometer-std()-X	Time domain record from the accelerometer in the X direction , gravity signal - standard deviation
timeGravityAccelerometer-std()-Y	Time domain record from the accelerometer in the Y direction , gravity signal- standard deviation
timeGravityAccelerometer-std()-Z	Time domain record from the accelerometer in the Z direction , gravity signal- standard deviation
timeBodyAccelerometerJerk-mean()-X	Time domain record from the accelerometer in the X direction , jerk signal - mean value
timeBodyAccelerometerJerk-mean()-Y	Time domain record from the accelerometer in the Y direction , jerk signal- mean value
timeBodyAccelerometerJerk-mean()-Z	Time domain record from the accelerometer in the Z direction , jerk signal- mean value
timeBodyAccelerometerJerk-std()-X	Time domain record from the accelerometer in the X direction , jerk signal - standard deviation
timeBodyAccelerometerJerk-std()-Y	Time domain record from the accelerometer in the Y direction , jerk signal- standard deviation
timeBodyAccelerometerJerk-std()-Z	Time domain record from the accelerometer in the Z direction , jerk signal- standard deviation
timeBodyGyroscope-mean()-X	Time domain record from the gyroscope in the X direction , body signal - mean value
timeBodyGyroscope-mean()-Y	Time domain record from the gyroscope in the Y direction , body signal- mean value
timeBodyGyroscope-mean()-Z	Time domain record from the gyroscope in the Z direction , body signal- mean value
timeBodyGyroscope-std()-X	Time domain record from the gyroscope in the X direction , body signal - standard deviation
timeBodyGyroscope-std()-Y	Time domain record from the gyroscope in the Y direction , body signal- standard deviation
timeBodyGyroscope-std()-Z	Time domain record from the gyroscope in the Z direction , body signal- standard deviation
timeBodyGyroscopeJerk-mean()-X	Time domain record from the gyroscope in the X direction , jerk signal - mean value
timeBodyGyroscopeJerk-mean()-Y	Time domain record from the gyroscope in the Y direction , jerk signal- mean value
timeBodyGyroscopeJerk-mean()-Z	Time domain record from the gyroscope in the Z direction , jerk signal- mean value
timeBodyGyroscopeJerk-std()-X	Time domain record from the gyroscope in the X direction , jerk signal - standard deviation
timeBodyGyroscopeJerk-std()-Y	Time domain record from the gyroscope in the Y direction , jerk signal- standard deviation
timeBodyGyroscopeJerk-std()-Z	Time domain record from the gyroscope in the Z direction , jerk signal- standard deviation
timeBodyAccelerometerMagnitude-mean()	Time domain record from the accelerometer, magnitude, body signal - mean value
timeBodyAccelerometerMagnitude-std()	Time domain record from the accelerometer, magnitude, body signal - standard deviation
timeGravityAccelerometerMagnitude-mean()	Time domain record from the accelerometer, magnitude, gravity signal - mean value
timeGravityAccelerometerMagnitude-std()	Time domain record from the accelerometer, magnitude, gravity signal - standard deviation
timeBodyAccelerometerJerkMagnitude-mean	Time domain record from the accelerometer, magnitude, jerk signal - mean value
timeBodyAccelerometerJerkMagnitude-std()	Time domain record from the accelerometer, magnitude, jerk signal - standard deviation
timeBodyGyroscopeMagnitude-mean()	Time domain record from the gyroscope, magnitude, body signal - mean value
timeBodyGyroscopeMagnitude-std()	Time domain record from the gyroscope, magnitude, body signal - standard deviation
timeBodyGyroscopeJerkMagnitude-mean()	Time domain record from the gyroscope, magnitude, jerk signal - mean value
timeBodyGyroscopeJerkMagnitude-std()	Time domain record from the gyroscope, magnitude, jerk signal - standard deviation
frequencyBodyAccelerometer-mean()-X	Frequency domain record from the accelerometer in the X direction , body signal - mean value
frequencyBodyAccelerometer-mean()-Y	Frequency domain record from the accelerometer in the Y direction , body signal- mean value
frequencyBodyAccelerometer-mean()-Z	Frequency domain record from the accelerometer in the Z direction , body signal- mean value
frequencyBodyAccelerometer-std()-X	Frequency domain record from the accelerometer in the X direction , body signal - standard deviation
frequencyBodyAccelerometer-std()-Y	Frequency domain record from the accelerometer in the Y direction , body signal- standard deviation
frequencyBodyAccelerometer-std()-Z	Frequency domain record from the accelerometer in the Z direction , body signal- standard deviation
frequencyBodyAccelerometerJerk-mean()-X	Frequency domain record from the accelerometer in the X direction , jerk signal - mean value
frequencyBodyAccelerometerJerk-mean()-Y	Frequency domain record from the accelerometer in the Y direction , jerk signal- mean value
frequencyBodyAccelerometerJerk-mean()-Z	Frequency domain record from the accelerometer in the Z direction , jerk signal- mean value
frequencyBodyAccelerometerJerk-std()-X	Frequency domain record from the accelerometer in the X direction , jerk signal - standard deviation
frequencyBodyAccelerometerJerk-std()-Y	Frequency domain record from the accelerometer in the Y direction , jerk signal- standard deviation
frequencyBodyAccelerometerJerk-std()-Z	Frequency domain record from the accelerometer in the Z direction , jerk signal- standard deviation
frequencyBodyGyroscope-mean()-X	Frequency domain record from the gyroscope in the X direction , body signal - mean value
frequencyBodyGyroscope-mean()-Y	Frequency domain record from the gyroscope in the Y direction , body signal- mean value
frequencyBodyGyroscope-mean()-Z	Frequency domain record from the gyroscope in the Z direction , body signal- mean value
frequencyBodyGyroscope-std()-X	Frequency domain record from the gyroscope in the X direction , body signal - standard deviation
frequencyBodyGyroscope-std()-Y	Frequency domain record from the gyroscope in the Y direction , body signal- standard deviation
frequencyBodyGyroscope-std()-Z	Frequency domain record from the gyroscope in the Z direction , body signal- standard deviation
frequencyBodyAccelerometerMagnitude-mea	Frequency domain record from the accelerometer, magnitude, body signal - mean value
frequencyBodyAccelerometerMagnitude-std()	Frequency domain record from the accelerometer, magnitude, body signal - standard deviation
frequencyBodyAccelerometerJerkMagnitude-r	Frequency domain record from the accelerometer, magnitude, jerk signal - mean value
frequencyBodyAccelerometerJerkMagnitude-s	Frequency domain record from the accelerometer, magnitude, jerk signal - standard deviation
frequencyBodyGyroscopeMagnitude-mean()	Frequency domain record from the gyroscope, magnitude, body signal - mean value
frequencyBodyGyroscopeMagnitude-std()	Frequency domain record from the gyroscope, magnitude, body signal - standard deviation
frequencyBodyGyroscopeJerkMagnitude-mea	Frequency domain record from the gyroscope, magnitude, jerk signal - mean value
frequencyBodyGyroscopeJerkMagnitude-std()	Frequency domain record from the gyroscope, magnitude, jerk signal - standard deviation