# **Getting and Cleaning Data Course Project**

The purpose of this project is to demonstrate your ability to collect, work with, and clean a data set. The goal is to prepare tidy data that can be used You will be graded by your peers on a series of yes/no questions related to the project. You will be required to submit: 1) a tidy data set as described a Github repository with your script for performing the analysis, and 3) a code book that describes the variables, the data, and any transformations or performed to clean up the data called CodeBook.md. You should also include a README.md in the repo with your scripts. This repo explains how all o and how they are connected.

One of the most exciting areas in all of data science right now is wearable computing - see for example this article. Companies like Fitbit, Nike, and racing to develop the most advanced algorithms to attract new users. The data linked to from the course website represent data collected from the a from the Samsung Galaxy S smartphone. A full description is available at the site where the data was obtained:

http://archive.ics.uci.edu/ml/datasets/Human+Activity+Recognition+Using+Smartphones

Here are the data for the project:

https://d396qusza40orc.cloudfront.net/getdata%2Fprojectfiles%2FUCI%20HAR%20Dataset.zip

You should create one R script called run\_analysis.R that does the following.

Merges the training and the test sets to create one data set.

Extracts only the measurements on the mean and standard deviation for each measurement.

Uses descriptive activity names to name the activities in the data set

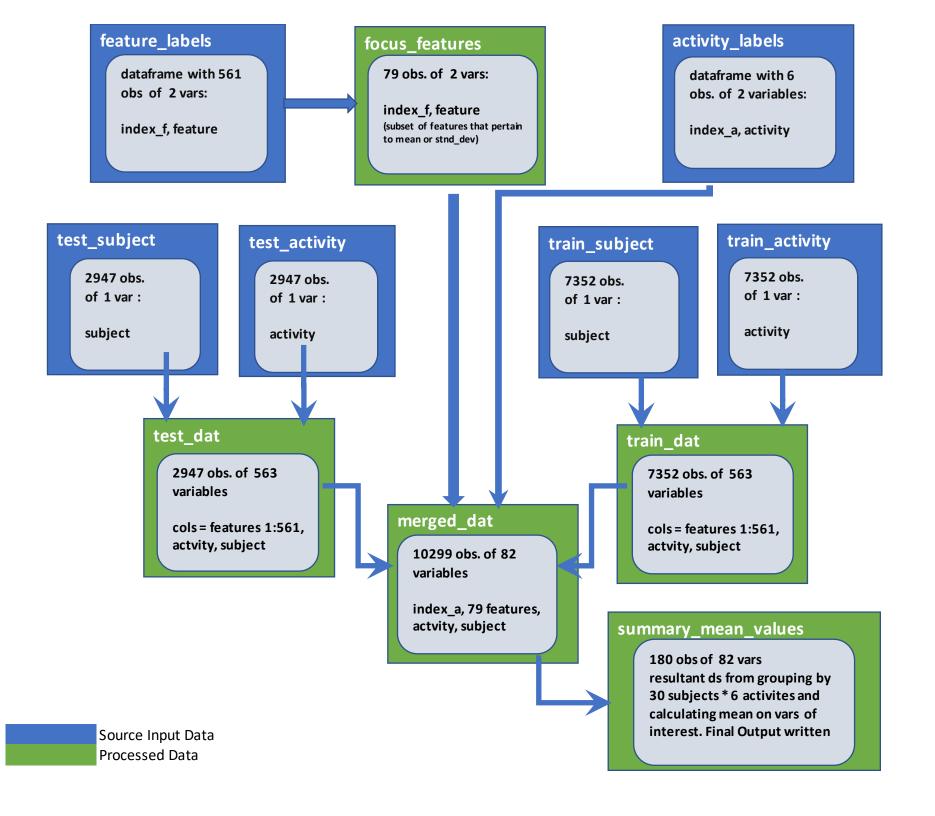
Appropriately labels the data set with descriptive variable names.

From the data set in step 4, creates a second, independent tidy data set with the average of each variable for each activity and each subject.

## **Processing Steps**

- 1 Read in source data for activity and subject labels.

  Read in source data for subjects and activities for each observation for both test and training
- 2 Read in source data for observations for test and training
  Assign feature labels to the appropriate column names of test and train data sets
  Use cbind function to add cols for activity and subject to the test and training data sets
- 3 Identify features of interest by grepping for features with "mean" or "std" in the feature\_label descriptor
- 4 Subset for features of interest and Merge test and training data using rbind
- 5 Add Activity Descriptors to merged data using merge command
- 5 Group by Subject and Activity
- 6 Calculate mean across summary grouped dataset



# **Source Data Files Core Data Files with Observations** test\_activity

#### **File Description**

\* when orginally created from source input files each column in these data files is a recorded value for one of the features in features\_labels described below. Each row provides OBSERVATIONS on these 561 variables at a particular point in time for a particular person performing a specific activity

Identifier for WHO is being recorded	
test_subject	
train subject	Π

Identifer 1:30 that identifies WHO's measurement has been recorded in the observation

test activity train\_activity

train\_activity

Identifier for ACTIVITY being performed Activity 1:6 that identifies what activity was being performed when observation was being recorded

### activity\_labels 1 WALKING 2 WALKING\_UPSTAIRS 3 WALKING DOWNSTAIRS 4 SITTING 5 STANDING 6 LAYING

The activity\_labels file is a look up table that identifes the ACTIVITY( walking,running etc)

feature_labels	The features_labels f
1 tBodyAcc-mean()-X	signals (prefix 't' to d
2 tBodyAcc-mean()-Y	and a 3rd order low
3 tBodyAcc-mean()-Z	signal was then sepa
4 tBodyAcc-std()-X	. , , , , , , , , , , , , , , , , , , ,
5 tBodyAcc-std()-Y	Subsequently, the bo
6 tBodyAcc-std()-Z	norm (tBodyAccMag,
7 tBodyAcc-mad()-X	
8 tBodyAcc-mad()-Y	Finally a Fast Fourier  fBodyGyro-XYZ, fBody
9 tBodyAcc-mad()-Z	ibouydy10-X12, ibouy
10 tBodyAcc-max()-X	These signals were u
11 tBodyAcc-max()-Y	'-XYZ' is used to deno
12 tBodyAcc-max()-Z	tBodyAcc-XYZ
13 tBodyAcc-min()-X	tGravityAcc-XYZ
14 tBodyAcc-min()-Y	tBodyAccJerk-XYZ tBodyGyro-XYZ
15 tBodyAcc-min()-Z	tBodyGyroJerk-XYZ
16 tBodyAcc-sma()	tBodyAccMag
17 tBodyAcc-energy()-X	tGravityAccMag tBodyAccJerkMag
18 tBodyAcc-energy()-Y	tBodyGyroMag
19 tBodyAcc-energy()-Z	tBodyGyroJerkMag
20 tBodyAcc-iqr()-X	fBodyAcc-XYZ fBodyAccJerk-XYZ
21 tBodyAcc-iqr()-Y	fBodyGyro-XYZ
22 tBodyAcc-iqr()-Z	fBodyAccMag
23 tBodyAcc-entropy()-X	fBodyAccJerkMag
24 tBodyAcc-entropy()-Y	
25 tBodyAcc-entropy()-Z	
26 tBodyAcc-arCoeff()-X,1	
27 tBodyAcc-arCoeff()-X,2	
28 tBodyAcc-arCoeff()-X,3	
29 tBodyAcc-arCoeff()-X,4	
30 tBodyAcc-arCoeff()-Y,1	
31 tBodyAcc-arCoeff()-Y,2	
32 tBodyAcc-arCoeff()-Y,3	
33 tBodyAcc-arCoeff()-Y,4	
34 tBodyAcc-arCoeff()-Z,1	
35 tBodyAcc-arCoeff()-Z,2	
36 tBodyAcc-arCoeff()-Z,3	
37 tBodyAcc-arCoeff()-Z,4	
38 tBodyAcc-correlation()-X,Y	
39 tBodyAcc-correlation()-X,7	
40 tBodyAcc-correlation()-Y,Z	
41 tGravityAcc-mean()-X	
42 tGravityAcc-mean()-Y	
43 tGravityAcc-mean()-Z 44 tGravityAcc-std()-X	
45 tGravityAcc-std()-Y	
46 tGravityAcc-std()-Z	
47 tGravityAcc-mad()-X	
48 tGravityAcc-mad()-Y	
49 tGravityAcc-mad()-Z	
50 tGravityAcc-max()-X	

The features\_labels file is a look up table for the descriptors of WHAT is being observed. The features selected for the datasets come from the accelerometer and gyroscope 3-axial raw signals tAcc-XYZ and tGyro-XYZ. These time domain signals (prefix 't' to denote time) were captured at a constant rate of 50 Hz. Then they were filtered using a median filter and a 3rd order low pass Butterworth filter with a corner frequency of 20 Hz to remove noise. Similarly, the acceleration signal was then separated into body and gravity acceleration signals (tBodyAcc-XYZ and tGravityAcc-XYZ) using another low pass Butterworth filter with a corner frequency of 0.3 Hz.

Subsequently, the body linear acceleration and angular velocity were derived in time to obtain Jerk signals (tBodyAcclerk-XYZ and tBodyGyroJerk-XYZ). Also the magnitude of these three-dimensional signals were calculated using the Eudidean norm (tBodyAccMag, tGravityAccMag, tBodyAccMag, tBodyGyroJerkMag).

Finally a Fast Fourier Transform (FFT) was applied to some of these signals producing fBodyAcc-XYZ, fBodyAcclerk-XYZ, fBodyGyro-XYZ, fBodyAcclerkMag, fBodyGyroMag, fBodyGyroJerkMag. (Note the 'f' to indicate frequency domain signals).

These signals were used to estimate variables of the feature vector for each pattern: '-XYZ' is used to denote 3-axial signals in the X, Y and Z directions.

51 tGravityAcc-max()-Y 52 tGravityAcc-min()-X 54 tGravityAcc-min()-Y 55 tGravityAcc-min()-Y 55 tGravityAcc-min()-Y 55 tGravityAcc-energy()-X 56 tGravityAcc-energy()-X 58 tGravityAcc-energy()-Y 59 tGravityAcc-energy()-Y 59 tGravityAcc-energy()-Z 60 tGravityAcc-iqr()-Y 61 tGravityAcc-iqr()-Y 62 tGravityAcc-entropy()-X 64 tGravityAcc-entropy()-X 65 tGravityAcc-entropy()-Y 65 tGravityAcc-entropy()-Y 66 tGravityAcc-entropy()-Y 67 tGravityAcc-entropy()-Y 68 tGravityAcc-arCoeff()-X,1 69 tGravityAcc-arCoeff()-X,2 68 tGravityAcc-arCoeff()-X,3 69 tGravityAcc-arCoeff()-Y,4 70 tGravityAcc-arCoeff()-Y,2 71 tGravityAcc-arCoeff()-Y,2 72 tGravityAcc-arCoeff()-Y,2 73 tGravityAcc-arCoeff()-Y,3 73 tGravityAcc-arCoeff()-Y,4 74 tGravityAcc-arCoeff()-Z,2 76 tGravityAcc-arCoeff()-Z,2 77 tGravityAcc-arCoeff()-Z,2 78 tGravityAcc-arCoeff()-Z,2 79 tGravityAcc-arCoeff()-X,4 79 tGravityAcc-arCoeff()-X,2 80 tGravityAcc-arCoeff()-X,2 81 tBodyAcclerk-mean()-X 82 tBodyAcclerk-mean()-X 83 tBodyAcclerk-mean()-X 84 tBodyAcclerk-mean()-X 85 tBodyAcclerk-mean()-X 86 tBodyAcclerk-mean()-X 87 tBodyAcclerk-mean()-X 88 tBodyAcclerk-max()-Y 99 tBodyAcclerk-max()-Y 90 tBodyAcclerk-max()-Y 91 tBodyAcclerk-max()-Y 92 tBodyAcclerk-max()-Y 93 tBodyAcclerk-max()-Y 94 tBodyAcclerk-max()-Y 95 tBodyAcclerk-max()-Y 96 tBodyAcclerk-max()-Y 97 tBodyAcclerk-max()-Y 98 tBodyAcclerk-max()-Y 99 tBodyAcclerk-max()-Y 90 tBodyAcclerk-max()-Y 91 tBodyAcclerk-max()-Y 92 tBodyAcclerk-max()-Y 91 tBodyAcclerk-ma	
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106 tBodyAccJerk-arCoeff()-X,1
107 tBodyAccJerk-arCoeff()-X,2
108 tBodyAccJerk-arCoeff()-X,3
109 tBodyAccJerk-arCoeff()-X,4
110 tBodyAccJerk-arCoeff()-Y,1
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114 tBodyAccJerk-arCoeff()-Z,1
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116 tBodyAccJerk-arCoeff()-Z,3
117 tBodyAccJerk-arCoeff()-Z,4
118 tBodyAccJerk-correlation()-X,Y
119 tBodyAccJerk-correlation()-X,Z
120 tBodyAccJerk-correlation()-Y,Z
121 tBodyGyro-mean()-X
122 tBodyGyro-mean()-Y
123 tBodyGyro-mean()-Z
124 tBodyGyro-std()-X
125 tBodyGyro-std()-Y
126 tBodyGyro-std()-Z
127 tBodyGyro-mad()-X
128 tBodyGyro-mad()-Y
129 tBodyGyro-mad()-Z
130 tBodyGyro-max()-X
131 tBodyGyro-max()-Y
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133 tBodyGyro-min()-X
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136 tBodyGyro-sma()
137 tBodyGyro-energy()-X
138 tBodyGyro-energy()-Y
139 tBodyGyro-energy()-Z
140 tBodyGyro-iqr()-X
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153 tBodyGyro-arCoeff()-Y,4
154 tBodyGyro-arCoeff()-Z,1
155 tBodyGyro-arCoeff()-Z,2
156 tBodyGyro-arCoeff()-Z,3

157 tBodyGyro-arCoeff()-Z,4
158 tBodyGyro-correlation()-X,Y
159 tBodyGyro-correlation()-X,Z
160 tBodyGyro-correlation()-Y,Z
161 tBodyGyroJerk-mean()-X
162 tBodyGyroJerk-mean()-Y
163 tBodyGyroJerk-mean()-Z
164 tBodyGyroJerk-std()-X
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166 tBodyGyroJerk-std()-Z
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169 tBodyGyroJerk-mad()-Z
170 tBodyGyroJerk-max()-X
171 tBodyGyroJerk-max()-Y
172 tBodyGyroJerk-max()-Z
173 tBodyGyroJerk-min()-X
174 tBodyGyroJerk-min()-Y
175 tBodyGyroJerk-min()-Z
176 tBodyGyroJerk-sma()
177 tBodyGyroJerk-energy()-X
178 tBodyGyroJerk-energy()-Y
179 tBodyGyroJerk-energy()-Z
180 tBodyGyroJerk-iqr()-X
181 tBodyGyroJerk-iqr()-Y
182 tBodyGyroJerk-iqr()-Z
183 tBodyGyroJerk-entropy()-X
184 tBodyGyroJerk-entropy()-Y
185 tBodyGyroJerk-entropy()-Z
186 tBodyGyroJerk-arCoeff()-X,1
187 tBodyGyroJerk-arCoeff()-X,2
188 tBodyGyroJerk-arCoeff()-X,3
189 tBodyGyroJerk-arCoeff()-X,4
190 tBodyGyroJerk-arCoeff()-Y,1
191 tBodyGyroJerk-arCoeff()-Y,2
192 tBodyGyroJerk-arCoeff()-Y,3
193 tBodyGyroJerk-arCoeff()-Y,4
194 tBodyGyroJerk-arCoeff()-Z,1
195 tBodyGyroJerk-arCoeff()-Z,2
196 tBodyGyroJerk-arCoeff()-Z,3
197 tBodyGyroJerk-arCoeff()-Z,4
198 tBodyGyroJerk-correlation()-X,Y
199 tBodyGyroJerk-correlation()-X,Z
200 tBodyGyroJerk-correlation()-Y,Z
201 tBodyAccMag-mean()
202 tBodyAccMag-std()
203 tBodyAccMag-mad()
204 tBodyAccMag-max()
205 tBodyAccMag-min()
206 tBodyAccMag-sma()
207 tBodyAccMag-energy()
208 tBodyAccMag-iqr()
209 tBodyAccMag-entropy()
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210 tBodyAccMag-arCoeff()1
211 tBodyAccMag-arCoeff()2
212 tBodyAccMag-arCoeff()3
213 tBodyAccMag-arCoeff()4
214 tGravityAccMag-mean()
215 tGravityAccMag-std()
216 tGravityAccMag-mad()
217 tGravityAccMag-max()
218 tGravityAccMag-min()
219 tGravityAccMag-sma()
220 tGravityAccMag-energy()
221 tGravityAccMag-iqr()
222 tGravityAccMag-entropy()
223 tGravityAccMag-arCoeff()1
224 tGravityAccMag-arCoeff()2
225 tGravityAccMag-arCoeff()3
226 tGravityAccMag-arCoeff()4
227 tBodyAccJerkMag-mean()
228 tBodyAccJerkMag-std()
229 tBodyAccJerkMag-mad()
230 tBodyAccJerkMag-max()
231 tBodyAccJerkMag-min()
232 tBodyAccJerkMag-sma()
233 tBodyAccJerkMag-energy()
234 tBodyAccJerkMag-energy()
235 tBodyAccJerkMag-entropy()
236 tBodyAccJerkMag-arCoeff()1
237 tBodyAccJerkMag-arCoeff()2
237 tBodyAccJerkMag-arCoeff()2  238 tBodyAccJerkMag-arCoeff()3
239 tBodyAccJerkMag-arCoeff()4
240 tBodyGyroMag-mean()
241 tBodyGyroMag-mean()
242 tBodyGyroMag-std()
243 tBodyGyroMag-max()
244 tBodyGyroMag-min()
245 tBodyGyroMag-mm()
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246 tBodyGyroMag-energy() 247 tBodyGyroMag-iqr()
248 tBodyGyroMag-entropy()
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249 tBodyGyroMag-arCoeff()1
250 tBodyGyroMag-arCoeff()2
251 tBodyGyroMag-arCoeff()3
252 tBodyGyroMag-arCoeff()4
253 tBodyGyroJerkMag-mean()
254 tBodyGyroJerkMag-std()
255 tBodyGyroJerkMag-mad()
256 tBodyGyroJerkMag-max()
257 tBodyGyroJerkMag-min()
258 tBodyGyroJerkMag-sma()
259 tBodyGyroJerkMag-energy()
260 tBodyGyroJerkMag-iqr()
261 tBodyGyroJerkMag-entropy()
262 tBodyGyroJerkMag-arCoeff()1

263 tBodyGyroJerkMag-arCoeff()2
264 tBodyGyroJerkMag-arCoeff()3
265 tBodyGyroJerkMag-arCoeff()4
266 fBodyAcc-mean()-X
267 fBodyAcc-mean()-Y
268 fBodyAcc-mean()-Z
269 fBodyAcc-std()-X
270 fBodyAcc-std()-Y
271 fBodyAcc-std()-Z
272 fBodyAcc-mad()-X
273 fBodyAcc-mad()-Y
274 fBodyAcc-mad()-Z
275 fBodyAcc-max()-X
276 fBodyAcc-max()-Y
277 fBodyAcc-max()-Z
278 fBodyAcc-min()-X
279 fBodyAcc-min()-Y
280 fBodyAcc-min()-Z
281 fBodyAcc-sma()
282 fBodyAcc-energy()-X
283 fBodyAcc-energy()-Y
284 fBodyAcc-energy()-Z
285 fBodyAcc-iqr()-X
286 fBodyAcc-iqr()-Y
287 fBodyAcc-iqr()-Z
288 fBodyAcc-entropy()-X
289 fBodyAcc-entropy()-Y
290 fBodyAcc-entropy()-Z
291 fBodyAcc-maxInds-X
292 fBodyAcc-maxInds-Y
293 fBodyAcc-maxInds-Z
294 fBodyAcc-meanFreq()-X
295 fBodyAcc-meanFreq()-Y
296 fBodyAcc-meanFreq()-Z
297 fBodyAcc-skewness()-X
298 fBodyAcc-kurtosis()-X
299 fBodyAcc-skewness()-Y
300 fBodyAcc-kurtosis()-Y
301 fBodyAcc-skewness()-Z
302 fBodyAcc-kurtosis()-Z
303 fBodyAcc-bandsEnergy()-1,8
304 fBodyAcc-bandsEnergy()-9,16
305 fBodyAcc-bandsEnergy()-17,24
306 fBodyAcc-bandsEnergy()-25,32
307 fBodyAcc-bandsEnergy()-33,40
308 fBodyAcc-bandsEnergy()-41,48
309 fBodyAcc-bandsEnergy()-49,56
310 fBodyAcc-bandsEnergy()-57,64
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313 fBodyAcc-bandsEnergy()-33,48
314 fBodyAcc-bandsEnergy()-49,64
315 fBodyAcc-bandsEnergy()-1,24
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316 fBodyAcc-bandsEnergy()-25,48
317 fBodyAcc-bandsEnergy()-1,8
318 fBodyAcc-bandsEnergy()-9,16
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340 fBodyAcc-bandsEnergy()-17,32
341 fBodyAcc-bandsEnergy()-33,48
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343 fBodyAcc-bandsEnergy()-1,24
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345 fBodyAccJerk-mean()-X
346 fBodyAccJerk-mean()-Y
347 fBodyAccJerk-mean()-Z
348 fBodyAccJerk-std()-X
349 fBodyAccJerk-std()-Y
350 fBodyAccJerk-std()-Z
351 fBodyAccJerk-mad()-X
352 fBodyAccJerk-mad()-Y
352 fBodyAccJerk-mad()-Z
354 fBodyAccJerk-max()-X
355 fBodyAccJerk-max()-Y
356 fBodyAccJerk-max()-Z
357 fBodyAccJerk-min()-X
358 fBodyAccJerk-min()-Y
359 fBodyAccJerk-min()-Z
360 fBodyAccJerk-sma()
361 fBodyAccJerk-energy()-X
362 fBodyAccJerk-energy()-Y
363 fBodyAccJerk-energy()-Z
364 fBodyAccJerk-energy()-Z
365 fBodyAccJerk-iqr()-Y
366 fBodyAccJerk-iqr()-Y
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367 fBodyAccJerk-entropy()-X
368 fBodyAccJerk-entropy()-Y

369 fBodyAccJerk-entropy()-Z
370 fBodyAccJerk-maxInds-X
371 fBodyAccJerk-maxInds-Y
372 fBodyAccJerk-maxInds-Z
373 fBodyAccJerk-meanFreq()-X
374 fBodyAccJerk-meanFreq()-Y
375 fBodyAccJerk-meanFreq()-Z
376 fBodyAccJerk-skewness()-X
377 fBodyAccJerk-kurtosis()-X
378 fBodyAccJerk-skewness()-Y
379 fBodyAccJerk-kurtosis()-Y
380 fBodyAccJerk-skewness()-Z
381 fBodyAccJerk-kurtosis()-Z
382 fBodyAccJerk-bandsEnergy()-1,8
383 fBodyAccJerk-bandsEnergy()-9,16
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390 fBodyAccJerk-bandsEnergy()-1,16
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392 fBodyAccJerk-bandsEnergy()-33,48 393 fBodyAccJerk-bandsEnergy()-49,64
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395 fBodyAccJerk-bandsEnergy()-25,48
396 fBodyAccJerk-bandsEnergy()-1,8 397 fBodyAccJerk-bandsEnergy()-9,16
398 fBodyAccJerk-bandsEnergy()-17,24
399 fBodyAccJerk-bandsEnergy()-17,24
400 fBodyAccJerk-bandsEnergy()-33,40
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404 fBodyAccJerk-bandsEnergy()-1,16 405 fBodyAccJerk-bandsEnergy()-17,32
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421 fBodyAccJerk-bandsEnergy()-49,64

22 fBodyAccJerk-bandsEnergy()-1,24	
23 fBodyAccJerk-bandsEnergy()-25,48	
24 fBodyGyro-mean()-X	
25 fBodyGyro-mean()-Y	
26 fBodyGyro-mean()-Z	
27 fBodyGyro-std()-X	
28 fBodyGyro-std()-Y	
29 fBodyGyro-std()-Z	
30 fBodyGyro-mad()-X	
31 fBodyGyro-mad()-Y	
32 fBodyGyro-mad()-Z	
33 fBodyGyro-max()-X	
34 fBodyGyro-max()-Y	
35 fBodyGyro-max()-Z	
36 fBodyGyro-min()-X	
37 fBodyGyro-min()-Y	
38 fBodyGyro-min()-Z	
39 fBodyGyro-sma()	
40 fBodyGyro-energy()-X	
41 fBodyGyro-energy()-Y	
42 fBodyGyro-energy()-Z	
43 fBodyGyro-iqr()-X 44 fBodyGyro-iqr()-Y	
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45 fBodyGyro-iqr()-Z	
46 fBodyGyro-entropy()-X	
47 fBodyGyro-entropy()-Y	
48 fBodyGyro-entropy()-Z	
49 fBodyGyro-maxInds-X	
50 fBodyGyro-maxInds-Y	
51 fBodyGyro-maxInds-Z	
52 fBodyGyro-meanFreq()-X	
53 fBodyGyro-meanFreq()-Y	
54 fBodyGyro-meanFreq()-Z	
55 fBodyGyro-skewness()-X	
56 fBodyGyro-kurtosis()-X	
57 fBodyGyro-skewness()-Y	
58 fBodyGyro-kurtosis()-Y	
59 fBodyGyro-skewness()-Z	
60 fBodyGyro-kurtosis()-Z	
61 fBodyGyro-bandsEnergy()-1,8	
62 fBodyGyro-bandsEnergy()-9,16	
63 fBodyGyro-bandsEnergy()-17,24	
64 fBodyGyro-bandsEnergy()-25,32	
65 fBodyGyro-bandsEnergy()-33,40	
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475 fBodyGyro-bandsEnergy()-1,8
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494 fBodyGyro-bandsEnergy()-41,48
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502 fBodyGyro-bandsEnergy()-25,48
503 fBodyAccMag-mean()
504 fBodyAccMag-std()
505 fBodyAccMag-mad()
506 fBodyAccMag-max()
507 fBodyAccMag-min()
508 fBodyAccMag-sma()
509 fBodyAccMag-energy()
510 fBodyAccMag-iqr()
511 fBodyAccMag-entropy()
512 fBodyAccMag-maxInds
513 fBodyAccMag-meanFreq()
514 fBodyAccMag-skewness()
515 fBodyAccMag-kurtosis()
516 fBodyBodyAccJerkMag-mean()
517 fBodyBodyAccJerkMag-std()
518 fBodyBodyAccJerkMag-mad()
519 fBodyBodyAccJerkMag-max()
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525 fBodyBodyAccJerkMag-maxInds
526 fBodyBodyAccJerkMag-meanFreq()
527 fBodyBodyAccJerkMag-skewness()

528 fBodyBodyAccJerkMag-kurtosis()
529 fBodyBodyGyroMag-mean()
530 fBodyBodyGyroMag-std()
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532 fBodyBodyGyroMag-max()
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552 fBodyBodyGyroJerkMag-meanFreq()
553 fBodyBodyGyroJerkMag-skewness()
554 fBodyBodyGyroJerkMag-kurtosis()
555 angle(tBodyAccMean,gravity)
556 angle(tBodyAccJerkMean),gravityMean)
557 angle(tBodyGyroMean,gravityMean)
558 angle(tBodyGyroJerkMean,gravityMean)
559 angle(X,gravityMean)
560 angle(Y,gravityMean)
561 angle(Z,gravityMean)