DATA DICTIONARY — SAMSUNG DATA - AVERAGE (PEER-GRADED ASSIGNMENT)

The final data set is a table of 180 columns and 561 rows.

Columns are recognized by 2 values concatenated by '.'. First value refers to the ID of the subject and latter part refers to the activity the measurement belongs to.

Ex: X1.LAYING refers to the measurements of X1 while Laying.

Since there are 30 subjects and 6 activities (LAYING
SITTING
STANDING
WALKING
WALKING DOWNSTAIRS
WALKING UPSTAIRS) there are 180 (6 x 30) columns.

List of columns:

1. "X1.LAYING"
2. "X2.LAYING"
3. "X3.LAYING"
4. "X4.LAYING"
5. "X5.LAYING"
6. "X6.LAYING"
7. "X7.LAYING"
8. "X8.LAYING"
9. "X9.LAYING"
10. "X10.LAYING"
11. "X11.LAYING"
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26. "X26.LAYING"
27. "X27.LAYING"
28. "X28.LAYING"
29. "X29.LAYING"
30. "X30.LAYING"

31. "X1.SITTING"
32. "X2.SITTING"
33. "X3.SITTING"
34. "X4.SITTING"
35. "X5.SITTING"
36. "X6.SITTING"
37. "X7.SITTING"
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57. "X27.SITTING"
58. "X28.SITTING"
59. "X29.SITTING"
60. "X30.SITTING"

61. "X1.STANDING"
62. "X2.STANDING"
63. "X3.STANDING"
64. "X4.STANDING"
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89. "X29.STANDING"
90. "X30.STANDING"

91. "X1.WALKING"
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117. "X27.WALKING"
118. "X28.WALKING"
119. "X29.WALKING"
120. "X30.WALKING"

121. "X1.WALKING_DOWNSTAIRS"
122. "X2.WALKING_DOWNSTAIRS"
123. "X3.WALKING_DOWNSTAIRS"
124. "X4.WALKING_DOWNSTAIRS"
125. "X5.WALKING_DOWNSTAIRS"
126. "X6.WALKING_DOWNSTAIRS"
127. "X7.WALKING_DOWNSTAIRS"
128. "X8.WALKING_DOWNSTAIRS"
129. "X9.WALKING_DOWNSTAIRS"
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134. "X14.WALKING_DOWNSTAIRS"
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146. "X26.WALKING_DOWNSTAIRS"
147. "X27.WALKING_DOWNSTAIRS"
148. "X28.WALKING_DOWNSTAIRS"
149. "X29.WALKING_DOWNSTAIRS"
150. "X30.WALKING_DOWNSTAIRS"

151. "X1.WALKING_UPSTAIRS"
152. "X2.WALKING_UPSTAIRS"
153. "X3.WALKING_UPSTAIRS"
154. "X4.WALKING_UPSTAIRS"
155. "X5.WALKING_UPSTAIRS"
156. "X6.WALKING_UPSTAIRS"
157. "X7.WALKING_UPSTAIRS"
158. "X8.WALKING_UPSTAIRS"
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163. "X13.WALKING_UPSTAIRS"
164. "X14.WALKING_UPSTAIRS"
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167. "X17.WALKING_UPSTAIRS"
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173. "X23.WALKING_UPSTAIRS"
174. "X24.WALKING_UPSTAIRS"
175. "X25.WALKING_UPSTAIRS"
176. "X26.WALKING_UPSTAIRS"
177. "X27.WALKING_UPSTAIRS"
178. "X28.WALKING_UPSTAIRS"
179. "X29.WALKING_UPSTAIRS"
180. "X30.WALKING_UPSTAIRS"

One row is the average of the subject doing the activity as specified in the Column name.
Rows refers to the 561 features measurements were taken of.

Ex: Row of "tBodyAcc-mean()-X" has average acceleration in x axis of 30 different subjects doing 6 different activities expanded in 180 columns.

All 561 rows:

1. tBodyAcc-mean()-X
2. tBodyAcc-mean()-Y
3. tBodyAcc-mean()-Z
4. tBodyAcc-std()-X
5. tBodyAcc-std()-Y
6. tBodyAcc-std()-Z
7. tBodyAcc-mad()-X
8. tBodyAcc-mad()-Y
9. tBodyAcc-mad()-Z
10. tBodyAcc-max()-X
11. tBodyAcc-max()-Y
12. tBodyAcc-max()-Z
13. tBodyAcc-min()-X
14. tBodyAcc-min()-Y
15. tBodyAcc-min()-Z
16. tBodyAcc-sma()
17. tBodyAcc-energy()-X
18. tBodyAcc-energy()-Y
19. tBodyAcc-energy()-Z
20. tBodyAcc-iqr()-X
21. tBodyAcc-iqr()-Y
22. tBodyAcc-iqr()-Z
23. tBodyAcc-entropy()-X
24. tBodyAcc-entropy()-Y
25. tBodyAcc-entropy()-Z
26. tBodyAcc-arCoeff()-X,
27. tBodyAcc-arCoeff()-X,
28. tBodyAcc-arCoeff()-X,
29. tBodyAcc-arCoeff()-X,
30. tBodyAcc-arCoeff()-Y,
31. tBodyAcc-arCoeff()-Y,
32. tBodyAcc-arCoeff()-Y,
33. tBodyAcc-arCoeff()-Y,
34. tBodyAcc-arCoeff()-Z,
35. tBodyAcc-arCoeff()-Z,
36. tBodyAcc-arCoeff()-Z,
37. tBodyAcc-arCoeff()-Z,
38. tBodyAcc-correlation()-X,Y
39. tBodyAcc-correlation()-X,Z
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
51. tGravityAcc-max()-Y
52. tGravityAcc-max()-Z
53. tGravityAcc-min()-X
54. tGravityAcc-min()-Y
55. tGravityAcc-min()-Z
56. tGravityAcc-sma()
57. tGravityAcc-energy()-X
58. tGravityAcc-energy()-Y
59. tGravityAcc-energy()-Z
60. tGravityAcc-iqr()-X
61. tGravityAcc-iqr()-Y
62. tGravityAcc-iqr()-Z
63. tGravityAcc-entropy()-X
64. tGravityAcc-entropy()-Y
65. tGravityAcc-entropy()-Z
66. tGravityAcc-arCoeff()-X,
67. tGravityAcc-arCoeff()-X,
68. tGravityAcc-arCoeff()-X,
69. tGravityAcc-arCoeff()-X,
70. tGravityAcc-arCoeff()-Y,
71. tGravityAcc-arCoeff()-Y,
72. tGravityAcc-arCoeff()-Y,
73. tGravityAcc-arCoeff()-Y,
74. tGravityAcc-arCoeff()-Z,
75. tGravityAcc-arCoeff()-Z,
76. tGravityAcc-arCoeff()-Z,
77. tGravityAcc-arCoeff()-Z,
78. tGravityAcc-correlation()-X,Y
79. tGravityAcc-correlation()-X,Z
80. tGravityAcc-correlation()-Y,Z
81. tBodyAccJerk-mean()-X
82. tBodyAccJerk-mean()-Y
83. tBodyAccJerk-mean()-Z
84. tBodyAccJerk-std()-X
85. tBodyAccJerk-std()-Y
86. tBodyAccJerk-std()-Z
87. tBodyAccJerk-mad()-X
88. tBodyAccJerk-mad()-Y
89. tBodyAccJerk-mad()-Z
90. tBodyAccJerk-max()-X
91. tBodyAccJerk-max()-Y
92. tBodyAccJerk-max()-Z
93. tBodyAccJerk-min()-X
94. tBodyAccJerk-min()-Y
95. tBodyAccJerk-min()-Z
96. tBodyAccJerk-sma()
97. tBodyAccJerk-energy()-X
98. tBodyAccJerk-energy()-Y
99. tBodyAccJerk-energy()-Z
100. tBodyAccJerk-iqr()-X
101. tBodyAccJerk-iqr()-Y
102. tBodyAccJerk-iqr()-Z
103. tBodyAccJerk-entropy()-X

104. tBodyAccJerk-entropy()-Y
105. tBodyAccJerk-entropy()-Z
106. tBodyAccJerk-arCoeff()-X,
107. tBodyAccJerk-arCoeff()-X,
108. tBodyAccJerk-arCoeff()-X,
109. tBodyAccJerk-arCoeff()-X,
110. tBodyAccJerk-arCoeff()-Y,
111. tBodyAccJerk-arCoeff()-Y,
112. tBodyAccJerk-arCoeff()-Y,
113. tBodyAccJerk-arCoeff()-Y,
114. tBodyAccJerk-arCoeff()-Z,
115. tBodyAccJerk-arCoeff()-Z,
116. tBodyAccJerk-arCoeff()-Z,
117. tBodyAccJerk-arCoeff()-Z,
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
132. tBodyGyro-max()-Z
133. tBodyGyro-min()-X
134. tBodyGyro-min()-Y
135. tBodyGyro-min()-Z
136. tBodyGyro-sma()
137. tBodyGyro-energy()-X
138. tBodyGyro-energy()-Y
139. tBodyGyro-energy()-Z
140. tBodyGyro-iqr()-X
141. tBodyGyro-iqr()-Y
142. tBodyGyro-iqr()-Z
143. tBodyGyro-entropy()-X
144. tBodyGyro-entropy()-Y
145. tBodyGyro-entropy()-Z
146. tBodyGyro-arCoeff()-X,
147. tBodyGyro-arCoeff()-X,
148. tBodyGyro-arCoeff()-X,
149. tBodyGyro-arCoeff()-X,
150. tBodyGyro-arCoeff()-Y,
151. tBodyGyro-arCoeff()-Y,
152. tBodyGyro-arCoeff()-Y,
153. tBodyGyro-arCoeff()-Y,
154. tBodyGyro-arCoeff()-Z,
155. tBodyGyro-arCoeff()-Z,
156. tBodyGyro-arCoeff()-Z,
157. tBodyGyro-arCoeff()-Z,
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
165. tBodyGyroJerk-std()-Y
166. tBodyGyroJerk-std()-Z

167. tBodyGyroJerk-mad()-X
168. tBodyGyroJerk-mad()-Y
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,
187. tBodyGyroJerk-arCoeff()-X,
188. tBodyGyroJerk-arCoeff()-X,
189. tBodyGyroJerk-arCoeff()-X,
190. tBodyGyroJerk-arCoeff()-Y,
191. tBodyGyroJerk-arCoeff()-Y,
192. tBodyGyroJerk-arCoeff()-Y,
193. tBodyGyroJerk-arCoeff()-Y,
194. tBodyGyroJerk-arCoeff()-Z,
195. tBodyGyroJerk-arCoeff()-Z,
196. tBodyGyroJerk-arCoeff()-Z,
197. tBodyGyroJerk-arCoeff()-Z,
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()
210. tBodyAccMag-arCoeff()
211. tBodyAccMag-arCoeff()
212. tBodyAccMag-arCoeff()
213. tBodyAccMag-arCoeff()
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()
224. tGravityAccMag-arCoeff()
225. tGravityAccMag-arCoeff()
226. tGravityAccMag-arCoeff()
227. tBodyAccJerkMag-mean()
228. tBodyAccJerkMag-std()
229. tBodyAccJerkMag-mad()

230. tBodyAccJerkMag-max()
231. tBodyAccJerkMag-min()
232. tBodyAccJerkMag-sma()
233. tBodyAccJerkMag-energy()
234. tBodyAccJerkMag-iqr()
235. tBodyAccJerkMag-entropy()
236. tBodyAccJerkMag-arCoeff()
237. tBodyAccJerkMag-arCoeff()
238. tBodyAccJerkMag-arCoeff()
239. tBodyAccJerkMag-arCoeff()
240. tBodyGyroMag-mean()
241. tBodyGyroMag-std()
242. tBodyGyroMag-mad()
243. tBodyGyroMag-max()
244. tBodyGyroMag-min()
245. tBodyGyroMag-sma()
246. tBodyGyroMag-energy()
247. tBodyGyroMag-iqr()
248. tBodyGyroMag-entropy()
249. tBodyGyroMag-arCoeff()
250. tBodyGyroMag-arCoeff()
251. tBodyGyroMag-arCoeff()
252. tBodyGyroMag-arCoeff()
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()
263. tBodyGyroJerkMag-arCoeff()
264. tBodyGyroJerkMag-arCoeff()
265. tBodyGyroJerkMag-arCoeff()
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

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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()-,
304.    fBodyAcc-bandsEnergy()-,
305.    fBodyAcc-bandsEnergy()-,
306.    fBodyAcc-bandsEnergy()-,
307.    fBodyAcc-bandsEnergy()-,
308.    fBodyAcc-bandsEnergy()-,
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340.    fBodyAcc-bandsEnergy()-,
341.    fBodyAcc-bandsEnergy()-,
342.    fBodyAcc-bandsEnergy()-,
343.    fBodyAcc-bandsEnergy()-,
344.    fBodyAcc-bandsEnergy()-,
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
353.    fBodyAccJerk-mad()-Z
354.    fBodyAccJerk-max()-X
355.    fBodyAccJerk-max()-Y
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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-iqr()-X
365. fBodyAccJerk-iqr()-Y
366. fBodyAccJerk-iqr()-Z
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()-,
383. fBodyAccJerk-bandsEnergy()-,
384. fBodyAccJerk-bandsEnergy()-,
385. fBodyAccJerk-bandsEnergy()-,
386. fBodyAccJerk-bandsEnergy()-,
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390. fBodyAccJerk-bandsEnergy()-,
391. fBodyAccJerk-bandsEnergy()-,
392. fBodyAccJerk-bandsEnergy()-,
393. fBodyAccJerk-bandsEnergy()-,
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fBodyGyro-mean()-Y
fBodyGyro-mean()-Z
fBodyGyro-std()-X
fBodyGyro-std()-Y
fBodyGyro-std()-Z
fBodyGyro-mad()-X
fBodyGyro-mad()-Y
fBodyGyro-mad()-Z
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fBodyGyro-max()-Y
fBodyGyro-max()-Z
fBodyGyro-min()-X
fBodyGyro-min()-Y
fBodyGyro-min()-Z
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fBodyGyro-energy()-Y
fBodyGyro-energy()-Z
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fBodyGyro-iqr()-Y
fBodyGyro-iqr()-Z
fBodyGyro-entropy()-X
fBodyGyro-entropy()-Y
fBodyGyro-entropy()-Z
fBodyGyro-maxInds-X
fBodyGyro-maxInds-Y
fBodyGyro-maxInds-Z
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fBodyGyro-meanFreq()-Y
fBodyGyro-meanFreq()-Z
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fBodyBodyGyroJerkMag-std()
fBodyBodyGyroJerkMag-mad()
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545. fBodyBodyGyroJerkMag-max()
546. fBodyBodyGyroJerkMag-min()
547. fBodyBodyGyroJerkMag-sma()
548. fBodyBodyGyroJerkMag-energy()
549. fBodyBodyGyroJerkMag-iqr()
550. fBodyBodyGyroJerkMag-entropy()
551. fBodyBodyGyroJerkMag-maxInds
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)

Any cell is of type numeric and has both positive and negative value.

	X1.LAYING	X2.LAYING	X3.LAYING	X4.LAYING	X5.LAYING	X6.LAYING	X7.LAYING	X8.LAYING	X9.LAYING	X10.LAYING	X11.LAYING	X12.LAYING	X13.LAYING	X14.LAYING	X15.LAYING	X16.LAYING	X17.LAYING	X18.LAYING	X19.LAYING
tBodyAcc-mean()-X	0.221598244	0.281373404	0.275516853	0.263559215	2.783343e-01	0.248656520	0.250176694	0.2612542829	0.259195537	0.280230574	0.280592971	0.2601134330	0.276716360	0.233275440	0.289475053	0.274227163	0.2697800856	0.274691577	0.2726537335
tBodyAcc-mean()-Y	-0.040513953	-0.018158740	-0.018955679	-0.015003184	-1.830421e-02	-0.010252917	-0.020441152	-0.0212281734	-0.020526822	-0.024294484	-0.017659805	-0.0175203917	-0.020440454	-0.011342465	-0.016829654	-0.016610351	-0.0168462007	-0.017393768	-0.0171426864
tBodyAcc-mean()-Z	-0.113203554	-0.107245610	-0.101300478	-0.110688150	-1.079376e-01	-0.133119570	-0.101361037	-0.1022453656	-0.107549721	-0.117168642	-0.108786578	-0.1081601257	-0.104331865	-0.086833332	-0.118530240	-0.107310493	-0.1070062797	-0.107698928	-0.1089814619
tBodyAcc-std()-X	-0.928056469	-0.974059465	-0.982776639	-0.954193739	-9.659345e-01	-0.934049422	-0.936513610	-0.9430412154	-0.942333090	-0.968283685	-0.984777330	-0.9553186800	-0.968891989	-0.917501887	-0.972255552	-0.973691429	-0.9729605673	-0.984527649	-0.9650195795
tBodyAcc-std()-Y	-0.836827406	-0.980277399	-0.962057545	-0.941714042	-9.692956e-01	-0.924644826	-0.926262669	-0.9348911600	-0.916292776	-0.946454302	-0.972196874	-0.9490720093	-0.950947950	-0.909697041	-0.962759422	-0.943061150	-0.9447928752	-0.986160921	-0.9734499686
tBodyAcc-std()-Z	-0.826061402	-0.984233297	-0.963691035	-0.962667315	-9.685625e-01	-0.925216100	-0.952978366	-0.9324914544	-0.940707285	-0.959471486	-0.971311177	-0.9483338435	-0.950392995	-0.900331922	-0.929586835	-0.965490276	-0.9534767001	-0.987658662	-0.9846728372
tBodyAcc-mad()-X	-0.932111173	-0.976606966	-0.985280124	-0.957949598	-9.690619e-01	-0.938200964	-0.938656584	-0.9454189398	-0.946768030	-0.971360301	-0.986755605	-0.9586925282	-0.971568146	-0.922298838	-0.974821674	-0.974437037	-0.9752407400	-0.985619914	-0.9660652505
tBodyAcc-mad()-Y	-0.840910589	-0.980963747	-0.965100052	-0.945799267	-9.715182e-01	-0.930008477	-0.926829713	-0.9322431770	-0.918515102	-0.947498061	-0.974316432	-0.9521236062	-0.950125182	-0.910003691	-0.966085775	-0.941570618	-0.9437904817	-0.986056020	-0.9749420595
tBodyAcc-mad()-Z	-0.821769982	-0.984844731	-0.966039689	-0.962876287	-9.672423e-01	-0.923557279	-0.955840710	-0.9316565371	-0.944135714	-0.959314181	-0.973571992	-0.9495817007	-0.949339227	-0.896314128	-0.929300166	-0.965316192	-0.9515176576	-0.987834079	-0.9851291405
tBodyAcc-max()-X	-0.906206030	-0.918792224	-0.920094330	-0.912698487	-9.166619e-01	-0.898465991	-0.905658805	-0.9009984248	-0.887417100	-0.905385946	-0.925159092	-0.9056824665	-0.918831716	-0.889182239	-0.911061294	-0.922602116	-0.9211885994	-0.927176132	-0.9147304110
tBodyAcc-max()-Y	-0.501553994	-0.562922494	-0.550358654	-0.525265841	-5.512529e-01	-0.504664048	-0.536589132	-0.5487616780	-0.531543802	-0.543414603	-0.557098157	-0.5399033214	-0.550162437	-0.511756240	-0.543161020	-0.547494759	-0.5408005169	-0.569041943	-0.5533795022
tBodyAcc-max()-Z	-0.702558042	-0.811239591	-0.792728784	-0.795752859	-8.043479e-01	-0.789971234	-0.776739001	-0.7608416411	-0.772128504	-0.802798686	-0.803127134	-0.7762675945	-0.790055487	-0.742720734	-0.787499926	-0.802210170	-0.7980073485	-0.816640142	-0.8134829746
tBodyAcc-min()-X	0.743068991	0.821333087	0.832767688	0.795296876	8.097674e-01	0.762568251	0.777488672	0.7862387798	0.783527337	0.819315516	0.832556698	0.7904265520	0.816732129	0.748834096	0.822678182	0.827583816	0.8156613501	0.837113145	0.8171902736
tBodyAcc-min()-Y	0.584897672	0.683942196	0.670005695	0.666114173	6.767653e-01	0.659767627	0.656384721	0.6605966670	0.650368108	0.664528589	0.677448279	0.6664941212	0.671332465	0.662626292	0.676438810	0.670238084	0.6741477051	0.687704606	0.6800701683
tBodyAcc-min()-Z	0.757735784	0.838955082	0.827783474	0.826098314	8.316425e-01	0.788505305	0.826605571	0.8183714948	0.807182509	0.815019589	0.829059541	0.8209914383	0.825578189	0.813605270	0.802277154	0.829174323	0.8234122877	0.840074660	0.8382399905
tBodyAcc-sma()	-0.842018280	-0.977681891	-0.971428698	-0.954208001	-9.671114e-01	-0.917550688	-0.935422842	-0.9321579409	-0.929691564	-0.956061029	-0.979845680	-0.9470992033	-0.957441405	-0.899187299	-0.954961538	-0.959523756	-0.9499769023	-0.985876868	-0.9686480001
tBodyAcc-energy()-X	-0.983501810	-0.998712742	-0.999593703	-0.991791770	-9.970909e-01	-0.979558636	-0.988989625	-0.9903965157	-0.991243631	-0.996530073	-0.999422012	-0.9930919592	-0.997954403	-0.965978962	-0.998091010	-0.998839250	-0.9977408948	-0.999681873	-0.9980480613
tBodyAcc-energy()-Y	-0.948096523	-0.999637563	-0.999000354	-0.996750788	-9.993656e-01	-0.992347937	-0.994176371	-0.9942456257	-0.996985456	-0.992708561	-0.999313143	-0.9981953370	-0.998240606	-0.991060807	-0.998790960	-0.998143612	-0.9967452466	-0.999877896	-0.9995555323
tBodyAcc-energy()-Z	-0.905166796	-0.999349611	-0.997004058	-0.997204961	-9.983234e-01	-0.987104135	-0.993564975	-0.9829906194	-0.995723551	-0.987558809	-0.998330162	-0.9942385083	-0.995478083	-0.952148414	-0.987839021	-0.997251414	-0.9961283203	-0.999714140	-0.9995120042
tBodyAcc-iqr()-X	-0.939855015	-0.979970158	-0.988425679	-0.968542931	-9.752777e-01	-0.944737627	-0.943660837	-0.9488802733	-0.955382442	-0.977124141	-0.988663179	-0.9648141528	-0.976108754	-0.929270095	-0.978246799	-0.975990651	-0.9787235585	-0.986777456	-0.9684994984
tBodyAcc-iqr()-Y	-0.877204030	-0.985124293	-0.974761514	-0.962524586	-9.783995e-01	-0.949794073	-0.943667546	-0.9398026933	-0.936387915	-0.958601128	-0.980780259	-0.9649246338	-0.956034159	-0.927247554	-0.976732781	-0.951131449	-0.9536416115	-0.987743110	-0.9801604094
tBodyAcc-iqr()-Z	-0.823212527	-0.984509168	-0.970789660	-0.962377355	-9.651810e-01	-0.923620180	-0.962043949	-0.9336334109	-0.952220602	-0.960443643	-0.979083903	-0.9524193777	-0.950736122	-0.894315704	-0.934277123	-0.968015995	-0.9510244086	-0.987524038	-0.9852706248
tBodyAcc-entropy()-X	-0.372230682	-0.365240316	-0.481913076	-0.347395084	-3.772663e-01	-0.294607332	-0.180395521	-0.2768461838	-0.165711877	-0.428352278	-0.537606812	-0.2785416450	-0.376755812	-0.163870802	-0.458081870	-0.345506108	-0.4927226829	-0.461325722	-0.3554509541
tBodyAcc-entropy()-Y	-0.491167013	-0.648947491	-0.569325769	-0.515419483	-5.557065e-01	-0.398550642	-0.496314806	-0.5022237968	-0.377707487	-0.569606762	-0.602879246	-0.4705728460	-0.495896827	-0.403595477	-0.571038234	-0.387267184	-0.5053292640	-0.631632950	-0.5713064733
tBodyAcc-entropy()-Z	-0.401980046	-0.531906503	-0.405468423	-0.491453484	-4.592504e-01	-0.526067264	-0.421867473	-0.4465141664	-0.373379811	-0.503718360	-0.517038482	-0.4288566125	-0.394365696	-0.347660623	-0.453858984	-0.444053190	-0.3924158809	-0.547583506	-0.5599727105
tBodyAcc-arCoeff()-X,1	0.042987845	0.054264354	0.047395415	0.014835137	1.196731e-01	-0.132961765	-0.115596741	0.0231394104	-0.186009299	-0.024156111	0.125850111	-0.0615863915	0.047859840	-0.213133024	0.036118498	-0.053799874	0.0299497192	0.067140714	-0.0026194943
tBodyAcc-arCoeff()-X,2	0.005230114	-0.034233234	0.036158677	0.008598831	-6.574217e-02	0.133759624	-0.029140880	-0.0255789778	0.058939146	0.021998252	-0.067131350	0.0541050766	-0.021097010	0.053180182	-0.025397495	-0.023679328	-0.0090850389	-0.027881720	0.0135461915
tBodyAcc-arCoeff()-X,3	-0.032330749	-0.011016144	-0.087893533	-0.067472323	-5.844128e-02	-0.009853675	-0.004202511	-0.0251158269	0.019860394	0.146688153	0.037259725	-0.0046791711	0.004710661	0.087647227	0.042147399	0.033321377	0.0466891052	0.136892952	0.0047076813
tBodyAcc-arCoeff()-X,4	0.146565224	0.075290978	0.148823113	0.010410536	1.536207e-01	-0.025091226	0.079788800	0.0993081461	0.064328117	-0.084021563	0.145954305	-0.0157515675	-0.014119590	0.003687278	0.053124314	0.111026741	-0.1111813911	-0.094121920	-0.0257017333
tBodyAcc-arCoeff()-Y,1	0.176036389	0.298941607	0.168213939	0.256938768	3.470150e-01	0.217325973	0.071449116	0.1606340605	-0.028962652	0.238567041	0.236240604	0.1336675042	0.157001119	0.012569952	0.205374287	0.092992604	0.1268329695	0.222602421	0.2495563477
tBodyAcc-arCoeff()-Y,2	-0.104318251	-0.171373589	-0.054589371	-0.064656571	-6.221560e-02	-0.054250015	-0.086292865	-0.1358274879	-0.071810197	-0.115937692	-0.082657074	-0.0108193009	-0.075189606	-0.131761416	-0.094071345	-0.130113121	-0.1222004181	-0.088044364	-0.0714977026
tBodyAcc-arCoeff()-Y,3	0.184165671	0.235624305	0.149083084	0.196260099	1.650769e-01	0.292104179	0.163134271	0.1762783864	0.184179145	0.193591562	0.181984018	0.1054196472	0.162227987	0.260426786	0.238473518	0.189359334	0.2266136747	0.238063079	0.1616960786
tBodyAcc-arCoeff()-Y,4	0.010500491	-0.024523371	0.056120367	-0.053153184	1.560477e-02	-0.059318358	-0.044234170	0.0453934991	0.039713232	0.064764916	0.167009029	0.0879347673	-0.089170356	0.015287982	-0.036004491	-0.091363403	-0.2200168912	-0.072551824	0.0152598458
tBodyAcc-arCoeff()-Z,1	0.209115342	0.364322085	0.217524126	0.208882159	1.945726e-01	0.146490106	0.227295370	0.2575576088	0.146297745	0.300488575	0.218421209	0.1315927290	0.165164589	0.068993793	0.146780006	0.165945850	0.0781948151	0.309210583	0.2876647371
tBodyAcc-arCoeff()-Z,2	-0.121908136	-0.159101985	-0.124339144	-0.070939622	-6.702343e-02	-0.027038850	-0.081249169	-0.1310992714	-0.025407816	-0.097592643	-0.075235930	-0.0296824339	-0.039633822	-0.075998833	-0.082545225	-0.079972103	-0.0555321498	-0.128045262	-0.0853532111
tBodyAcc-arCoeff()-Z,3	0.090544313	0.176129899	0.158976785	0.040791916	4.693122e-02	0.049969199	0.137547583	0.1391324702	0.163280506	0.130757624	0.080646455	0.0683562607	0.081620506	0.207891241	0.074107299	0.097998285	0.0990234614	0.165315916	0.0755903806

Fig: Visual representation of data set