**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"
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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"
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57. "X27.SITTING"
58. "X28.SITTING"
59. "X29.SITTING"
60. "X30.SITTING"
61. "X1.STANDING"
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116. "X26.WALKING"
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"
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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"
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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()
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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()
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258. tBodyGyroJerkMag-sma()
259. tBodyGyroJerkMag-energy()
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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
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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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
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()-,
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387. fBodyAccJerk-bandsEnergy()-,
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397. fBodyAccJerk-bandsEnergy()-,
398. fBodyAccJerk-bandsEnergy()-,
399. fBodyAccJerk-bandsEnergy()-,
400. fBodyAccJerk-bandsEnergy()-,
401. fBodyAccJerk-bandsEnergy()-,
402. fBodyAccJerk-bandsEnergy()-,
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420. fBodyAccJerk-bandsEnergy()-,
421. fBodyAccJerk-bandsEnergy()-,
422. fBodyAccJerk-bandsEnergy()-,
423. fBodyAccJerk-bandsEnergy()-,
424. fBodyGyro-mean()-X
425. fBodyGyro-mean()-Y
426. fBodyGyro-mean()-Z
427. fBodyGyro-std()-X
428. fBodyGyro-std()-Y
429. fBodyGyro-std()-Z
430. fBodyGyro-mad()-X
431. fBodyGyro-mad()-Y
432. fBodyGyro-mad()-Z
433. fBodyGyro-max()-X
434. fBodyGyro-max()-Y
435. fBodyGyro-max()-Z
436. fBodyGyro-min()-X
437. fBodyGyro-min()-Y
438. fBodyGyro-min()-Z
439. fBodyGyro-sma()
440. fBodyGyro-energy()-X
441. fBodyGyro-energy()-Y
442. fBodyGyro-energy()-Z
443. fBodyGyro-iqr()-X
444. fBodyGyro-iqr()-Y
445. fBodyGyro-iqr()-Z
446. fBodyGyro-entropy()-X
447. fBodyGyro-entropy()-Y
448. fBodyGyro-entropy()-Z
449. fBodyGyro-maxInds-X
450. fBodyGyro-maxInds-Y
451. fBodyGyro-maxInds-Z
452. fBodyGyro-meanFreq()-X
453. fBodyGyro-meanFreq()-Y
454. fBodyGyro-meanFreq()-Z
455. fBodyGyro-skewness()-X
456. fBodyGyro-kurtosis()-X
457. fBodyGyro-skewness()-Y
458. fBodyGyro-kurtosis()-Y
459. fBodyGyro-skewness()-Z
460. fBodyGyro-kurtosis()-Z
461. fBodyGyro-bandsEnergy()-,
462. fBodyGyro-bandsEnergy()-,
463. fBodyGyro-bandsEnergy()-,
464. fBodyGyro-bandsEnergy()-,
465. fBodyGyro-bandsEnergy()-,
466. fBodyGyro-bandsEnergy()-,
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500. fBodyGyro-bandsEnergy()-,
501. fBodyGyro-bandsEnergy()-,
502. fBodyGyro-bandsEnergy()-,
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()
520. fBodyBodyAccJerkMag-min()
521. fBodyBodyAccJerkMag-sma()
522. fBodyBodyAccJerkMag-energy()
523. fBodyBodyAccJerkMag-iqr()
524. fBodyBodyAccJerkMag-entropy()
525. fBodyBodyAccJerkMag-maxInds
526. fBodyBodyAccJerkMag-meanFreq()
527. fBodyBodyAccJerkMag-skewness()
528. fBodyBodyAccJerkMag-kurtosis()
529. fBodyBodyGyroMag-mean()
530. fBodyBodyGyroMag-std()
531. fBodyBodyGyroMag-mad()
532. fBodyBodyGyroMag-max()
533. fBodyBodyGyroMag-min()
534. fBodyBodyGyroMag-sma()
535. fBodyBodyGyroMag-energy()
536. fBodyBodyGyroMag-iqr()
537. fBodyBodyGyroMag-entropy()
538. fBodyBodyGyroMag-maxInds
539. fBodyBodyGyroMag-meanFreq()
540. fBodyBodyGyroMag-skewness()
541. fBodyBodyGyroMag-kurtosis()
542. fBodyBodyGyroJerkMag-mean()
543. fBodyBodyGyroJerkMag-std()
544. fBodyBodyGyroJerkMag-mad()
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.

Fig: Visual representation of data set

