Position	Variable Name	Variable Type	Variable Description	Range of Values
1	Subject_Id	Integer	Unique ID for subjects participated in the experiment	1 to 30
2	Activity_Name	String	Activities captured by the experiments	WALKING, WALKING_UPSTAIRS, WALKING_DOWNSTAIRS, SITTING, STANDING, LAYING
3	tBodyAcc-mean()-X	Number	Average of all mean Total Body Acceleration in X axis	-1 to + 1
4	tBodyAcc-mean()-Y	Number	Average of all mean Total Body Acceleration in Y axis	-1 to + 1
5	tBodyAcc-mean()-Z	Number	Average of all mean Total Body Acceleration in Z axis	-1 to + 1
6	tBodyAcc-std()-X	Number	Average of all std Total Body Acceleration in X axis	-1 to + 1
7	tBodyAcc-std()-Y	Number	Average of all std Total Body Acceleration in Y axis	-1 to + 1
8	tBodyAcc-std()-Z	Number	Average of all std Total Body Acceleration in Z axis	-1 to + 1
9	tGravityAcc-mean()-X	Number	Average of all mean Total Gravity Acceleration in X axis	-1 to + 1
10	tGravityAcc-mean()-Y	Number	Average of all mean Total Gravity Acceleration in Y axis	-1 to + 1
11	tGravityAcc-mean()-Z	Number	Average of all mean Total Gravity Acceleration in Z axis	-1 to + 1
12	tGravityAcc-std()-X	Number	Average of all std Total Gravity Acceleration in X axis	-1 to + 1
13	tGravityAcc-std()-Y	Number	Average of all std Total Gravity Acceleration in Y axis	-1 to + 1
14	tGravityAcc-std()-Z	Number	Average of all std Total Gravity Acceleration in Z axis	-1 to + 1
15	tBodyAccJerk-mean()-X	Number	Average of all mean Total Body Acceleration Jerk in X axis	-1 to + 1
16	tBodyAccJerk-mean()-Y	Number	Average of all mean Total Body Acceleration Jerk in Y axis	-1 to + 1
17	tBodyAccJerk-mean()-Z	Number	Average of all mean Total Body Acceleration Jerk in Z axis	-1 to + 1
18	tBodyAccJerk-std()-X	Number	Average of all std Total Body Acceleration Jerk in X axis	-1 to + 1

19	tBodyAccJerk-std()-Y	Number	Average of all std Total Body Acceleration Jerk in Y axis	-1 to + 1
20	tBodyAccJerk-std()-Z	Number	Average of all std Total Body Acceleration Jerk in Z axis	-1 to + 1
21	tBodyGyro-mean()-X	Number	Average of all mean Total Body Gyrometer in X axis	-1 to + 1
22	tBodyGyro-mean()-Y	Number	Average of all mean Total Body Gyrometer in Y axis	-1 to + 1
23	tBodyGyro-mean()-Z	Number	Average of all mean Total Body Gyrometer in Z axis	-1 to + 1
24	tBodyGyro-std()-X	Number	Average of all std Total Body Gyrometer in X axis	-1 to + 1
25	tBodyGyro-std()-Y	Number	Average of all std Total Body Gyrometer in Y axis	-1 to + 1
26	tBodyGyro-std()-Z	Number	Average of all std Total Body Gyrometer in Z axis	-1 to + 1
27	tBodyGyroJerk-mean()-X	Number	Average of all mean Total Body Gyrometer Jerk in X axis	-1 to + 1
28	tBodyGyroJerk-mean()-Y	Number	Average of all mean Total Body Gyrometer Jerk in Y axis	-1 to + 1
29	tBodyGyroJerk-mean()-Z	Number	Average of all mean Total Body Gyrometer Jerk in Z axis	-1 to + 1
30	tBodyGyroJerk-std()-X	Number	Average of all std Total Body Gyrometer Jerk in X axis	-1 to + 1
31	tBodyGyroJerk-std()-Y	Number	Average of all std Total Body Gyrometer Jerk in Y axis	-1 to + 1
32	tBodyGyroJerk-std()-Z	Number	Average of all std Total Body Gyrometer Jerk in Z axis	-1 to + 1
33	tBodyAccMag-mean()	Number	Average of all mean Total Body Acceleration Magnitude	-1 to + 1
34	tBodyAccMag-std()	Number	Average of all std Total Body Acceleration Magnitude	-1 to + 1
35	tGravityAccMag-mean()	Number	Average of all mean Total Gravity Acceleration Magnitude	-1 to + 1
36	tGravityAccMag-std()	Number	Average of all std Total Gravity Acceleration Magnitude	-1 to + 1
37	tBodyAccJerkMag-mean()	Number	Average of all mean Total Body Acceleration Jerk Magnitude	-1 to + 1
38	tBodyAccJerkMag-std()	Number	Average of all std Total Body Acceleration Jerk Magnitude	-1 to + 1
39	tBodyGyroMag-mean()	Number	Average of all mean Total Body Gyrometer Jerk Magnitude	-1 to + 1

40	tBodyGyroMag-std()	Number	Average of all std Total Body Gyrometer Jerk Magnitude	-1 to + 1
41	tBodyGyroJerkMag-mean()	Number	Average of average of all mean Total Body Gyrometer Jerk Magnitude	-1 to + 1
42	tBodyGyroJerkMag-std()	Number	Average of average of all std Total Body Gyrometer Jerk Magnitude	-1 to + 1
43	fBodyAcc-mean()-X	Number	Average of all mean FFT Total Body Acceleration in X axis	-1 to + 1
44	fBodyAcc-mean()-Y	Number	Average of all mean FFT Total Body Acceleration in Y axis	-1 to + 1
45	fBodyAcc-mean()-Z	Number	Average of all mean FFT Total Body Acceleration in Z axis	-1 to + 1
46	fBodyAcc-std()-X	Number	Average of all std FFT Total Body Acceleration in X axis	-1 to + 1
47	fBodyAcc-std()-Y	Number	Average of all std FFT Total Body Acceleration in Y axis	-1 to + 1
48	fBodyAcc-std()-Z	Number	Average of all std FFT Total Body Acceleration in Z axis	-1 to + 1
49	fBodyAccJerk-mean()-X	Number	Average of all mean FFT Total Body Acceleration Jerk in X axis	-1 to + 1
50	fBodyAccJerk-mean()-Y	Number	Average of all mean FFT Total Body Acceleration Jerk in Y axis	-1 to + 1
51	fBodyAccJerk-mean()-Z	Number	Average of all mean FFT Total Body Acceleration Jerk in Z axis	-1 to + 1
52	fBodyAccJerk-std()-X	Number	Average of all std FFT Total Body Acceleration Jerk in X axis	-1 to + 1
53	fBodyAccJerk-std()-Y	Number	Average of all std FFT Total Body Acceleration Jerk in Y axis	-1 to + 1
54	fBodyAccJerk-std()-Z	Number	Average of all mean FFT Total Body Acceleration Jerk in Z axis	-1 to + 1
55	fBodyGyro-mean()-X	Number	Average of all mean FFT Total Body Gyrometer in X axis	-1 to + 1
56	fBodyGyro-mean()-Y	Number	Average of all mean FFT Total Body Gyrometer in Y axis	-1 to + 1
57	fBodyGyro-mean()-Z	Number	Average of all mean FFT Total Body Gyrometer in Z axis	-1 to + 1
58	fBodyGyro-std()-X	Number	Average of all std FFT Total Body Gyrometer in X axis	-1 to + 1
59	fBodyGyro-std()-Y	Number	Average of all std FFT Total Body Gyrometer in Y axis	-1 to + 1

60	fBodyGyro-std()-Z	Number	Average of all std FFT Total Body Gyrometer in Z axis	-1 to + 1
61	fBodyAccMag-mean()	Number	Average of all mean FFT Body Acceleration Magnitude	-1 to + 1
62	fBodyAccMag-std()	Number	Average of all std FFT Body Acceleration Magnitude	-1 to + 1
63	fBodyBodyAccJerkMag-mean()	Number	Average of all mean FFT Body Acceleration Jerk Magnitude	-1 to + 1
64	fBodyBodyAccJerkMag-std()	Number	Average of all std FFT Body Acceleration Jerk Magnitude	-1 to + 1
65	fBodyBodyGyroMag-mean()	Number	Average of all mean FFT Body Gyrometer Magnitude	-1 to + 1
66	fBodyBodyGyroMag-std()	Number	Average of all std FFT Body Gyrometer Magnitude	-1 to + 1
67	fBodyBodyGyroJerkMag-mean()	Number	Average of all mean FFT Body Gyrometer Jerk Magnitude	-1 to + 1
68	fBodyBodyGyroJerkMag-std()	Number	Average of all std FFT Body Gyrometer Jerk Magnitude	-1 to + 1
69	angle(tBodyAccJerkMean),gravityMean)	Number	Average of all angle between average of Total Body Acceleration Jerk and mean of gravity measure	-1 to + 1
70	angle(tBodyGyroMean,gravityMean)	Number	Average of all angle between average of Total Body Gryometer and mean of gravity measure	-1 to + 1
71	angle(tBodyGyroJerkMean,gravityMean)	Number	Average of all angle between average of Total Body Gyrometer Jerk and mean of gravity measure	-1 to + 1
72	angle(X,gravityMean)	Number	Average of all angle between mean of Total Body Acceleration in X axis and mean of gravity measure	-1 to + 1
73	angle(Y,gravityMean)	Number	Average of all angle between mean of Total Body Acceleration in Y axis and mean of gravity measure	-1 to + 1
74	angle(Z,gravityMean)	Number	Average of all angle between mean of Total Body Acceleration in Z axis and mean of gravity measure	-1 to + 1