Code Book

The following table lists the columns in the tidy_data dataset, providing the field number, field name (as used in the dataset as column headings) and a description in each case. Units are normalized and reported in a bounded range within [-1,1].

Field Number Field Name	Field Description
1 Activity	Identifies the type of activity performed by the
	Subject (value selected from:'LAYING',
	'SITTING', 'STANDING', WALKING',
	'WALKING_DOWNSTAIRS','WALKING_UPSTAIRS ')
2 Subject	Identifies the subject who performed the activity (values from 1 to 30)
3 TimeBodyAccelerationMeanX	The average of: The mean of the frequency domain signal of body acceleration in the x-axis plane.
4 TimeBodyAccelerationMeanY	The average of: The mean of the frequency
, mesody, tecererationivedin	domain signal of body acceleration in the y-axis plane.
5 TimeBodyAccelerationMeanZ	The average of: The mean of the frequency
5 mileboay teecherationineans	domain signal of body acceleration in the z-axis plane.
6 TimeBodyAccelerationStandardDevi	The average of: The standard deviations of the
ationX	of the frequency domain signal of body
	acceleration in the x-axis plane.
7 TimeBodyAccelerationStandardDevi	The average of: The standard deviations of the
ationY	of the frequency domain signal of body
	acceleration in the y-axis plane.
8 TimeBodyAccelerationStandardDevi	The average of: The standard deviations of the
ationZ	of the frequency domain signal of body
	acceleration in the z-axis plane.
9 TimeGravityAccelerationMeanX	The average of: The mean of the frequency
	domain signal of Gravity acceleration in the x-axis plane.
10 TimeGravityAccelerationMeanY	The average of: The mean of the frequency
10 TimeGravity/tecelerationivicality	domain signal of Gravity acceleration in the y-axis plane.
11 TimeGravityAccelerationMeanZ	The average of: The mean of the frequency
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	domain signal of Gravity acceleration in the
40.7	z-axis plane.
•	The average of: The standard deviations of the
viationX	of the frequency domain signal of Gravity
42 Time Consult Associated to Charles	acceleration in the x-axis plane.
13 TimeGravityAccelerationStandardDe	The average of: The standard deviations of the

viationY	of the frequency domain signal of Gravity acceleration in the y-axis plane.
14 TimeGravityAccelerationStandardDe viationZ	The average of: The standard deviations of the of the frequency domain signal of Gravity acceleration in the z-axis plane.
15 TimeBodyAccelerationJerkMeanX	The average of: The mean of the frequency domain signal of body acceleration in the x-axis plane.
16 TimeBodyAccelerationJerkMeanY	The average of: The mean of the frequency domain signal of body acceleration in the y-axis plane.
17 TimeBodyAccelerationJerkMeanZ	The average of: The mean of the frequency domain signal of body acceleration in the z-axis plane.
18 TimeBodyAccelerationJerkStandard DeviationX	The average of: The standard deviations of of the frequency domain signal of body acceleration jerk in the x-axis plane.
19 TimeBodyAccelerationJerkStandard DeviationY	The average of: The standard deviations of of the frequency domain signal of body acceleration jerk in the y-axis plane.
20 TimeBodyAccelerationJerkStandard DeviationZ	The average of: The standard deviations of of the frequency domain signal of body acceleration jerk in the z-axis plane.
21 TimeBodyGyroscopeMeanX	The average of: The mean of the frequency domain gyroscope signal in the x-axis plane.
22 TimeBodyGyroscopeMeanY	The average of: The mean of the frequency domain gyroscope signal in the y-axis plane.
23 TimeBodyGyroscopeMeanZ	The average of: The mean of the frequency domain gyroscope signal in the z-axis plane.
24 TimeBodyGyroscopeStandardDeviat ionX	The average of: The standard deviations of the of the frequency domain gyroscope signal in the x-axis plane.
25 TimeBodyGyroscopeStandardDeviat ionY	The average of: The standard deviations of the of the frequency domain gyroscope signal in theyx-axis plane.
26 TimeBodyGyroscopeStandardDeviat ionZ	The average of: The standard deviations of the of the frequency domain gyroscope signal in the z-axis plane.
27 TimeBodyGyroscopeJerkMeanX	The average of: The mean of the frequency domain gyroscope jerk signal in the x-axis plane.
28 TimeBodyGyroscopeJerkMeanY	The average of: The mean of the frequency domain gyroscope jerk signal in the y-axis plane.
29 TimeBodyGyroscopeJerkMeanZ	The average of: The mean of the frequency domain gyroscope jerk signal in the z-axis plane.
30 TimeBodyGyroscopeJerkStandardDe	The average of: The standard deviations of the

31 TimeBodyGyroscopeJerkStandardDe viationY of the frequency domain gyroscope jerk sign in the y-axis plane. 32 TimeBodyGyroscopeJerkStandardDe The average of: The standard deviations of the viationZ of the frequency domain gyroscope jerk sign in the z-axis plane. 33 TimeBodyAccelerationMagnitudeM ean 34 TimeBodyAccelerationMagnitudeSt andardDeviation 35 TimeGravityAccelerationMagnitude Mean 36 TimeGravityAccelerationMagnitude Mean 37 TimeBodyAccelerationJerkMagnitud eMean 38 TimeBodyAccelerationJerkMagnitud eMean 39 TimeBodyAccelerationJerkMagnitud eMean 30 TimeBodyAccelerationJerkMagnitud eStandardDeviation 31 TimeBodyAccelerationJerkMagnitud eMean 32 TimeBodyAccelerationJerkMagnitud eStandardDeviation 33 TimeBodyAccelerationJerkMagnitud eMean 34 TimeBodyGyroscopeMagnitudeMea n 35 TimeBodyGyroscopeMagnitudeMea n 40 TimeBodyGyroscopeMagnitudeStan dardDeviation 41 TimeBodyGyroscopeJerkMagnitude Mean 42 TimeBodyGyroscopeJerkMagnitude Mean 43 FrequencyBodyAccelerationMeant 44 FrequencyBodyAccelerationMeant 45 TimeBodyGyroscopeJerkMagnitude The average of: The mean of the frequency domain signal of the magnitude of gyroscope jerk signal. The average of: The mean of the frequency domain signal of the magnitude of gyroscope signal. The average of: The mean of the frequency domain signal of the magnitude of gyroscope signal. The average of: The mean of the frequency domain signal of the magnitude of gyroscope signal. The average of: The mean of the frequency domain signal of the magnitude of gyroscope signal. The average of: The mean of the frequency domain signal of the magnitude of gyroscope signal. The average of: The mean of the frequency domain signal of the magnitude of gyroscope signal. The average of: The mean of the frequency domain signal of the magnitude of gyroscope signal. The average of: The mean of the frequency domain signal of the magnitude of gyroscope signal. The average of: The mean of the frequency domain signal of the magnitude of gyroscope signal. The average of: The mean of		viationX	of the frequency domain gyroscope jerk signal in the x-axis plane.	
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·	44	FrequencyBodyAccelerationMeanY	The average of: The mean of the frequency domain signal of body acceleration in the y-axis	
	45	FrequencyBodyAccelerationMeanZ	The average of: The mean of the frequency domain signal of body acceleration in the z-axis	
46 FrequencyBodyAccelerationStandar The average of: The standard deviations of the	46	FrequencyBodyAccelerationStandar	•	

	dDeviationX	frequency domain signal of body acceleration in the x-axis plane.
	FrequencyBodyAccelerationStandar dDeviationY	The average of: The standard deviations of the frequency domain signal of body acceleration in the y-axis plane.
	FrequencyBodyAccelerationStandar dDeviationZ	The average of: The standard deviations of the frequency domain signal of body acceleration in the z-axis plane.
	FrequencyBodyAccelerationMeanFr equencyX	The average of: The mean frequency of the frequency domain signal of Body acceleration in the x-axis plane.
	FrequencyBodyAccelerationMeanFr equencyY	The average of: The mean frequency of the frequency domain signal of Body acceleration in the y-axis plane.
	FrequencyBodyAccelerationMeanFr equencyZ	The average of: The mean frequency of the frequency domain signal of Body acceleration in the z-axis plane.
	FrequencyBodyAccelerationJerkMea nX	The average of: The mean of the frequency domain signal of Body acceleration jerk in the x-axis plane.
	FrequencyBodyAccelerationJerkMea nY	The average of: The mean of the frequency domain signal of Body acceleration jerk in the y-axis plane.
	FrequencyBodyAccelerationJerkMea nZ	The average of: The mean of the frequency domain signal of Body acceleration jerk in the z-axis plane.
	FrequencyBodyAccelerationJerkStan dardDeviationX	The average of: The standard deviations of the frequency domain signal of Body acceleration jerk in the x-axis plane.
	FrequencyBodyAccelerationJerkStan dardDeviationY	The average of: The standard deviations of the frequency domain signal of Body acceleration jerk in the y-axis plane.
	FrequencyBodyAccelerationJerkStan dardDeviationZ	The average of: The standard deviations of the frequency domain signal of Body acceleration jerk in the z-axis plane.
	FrequencyBodyAccelerationJerkMea nFrequencyX	The average of: The mean frequency of the frequency domain signal of Body acceleration jerk in the x-axis plane.
	FrequencyBodyAccelerationJerkMea nFrequencyY	The average of: The mean frequency of the frequency domain signal of Body acceleration jerk in the y-axis plane.
	FrequencyBodyAccelerationJerkMea nFrequencyZ	The average of: The mean frequency of the frequency domain signal of Body acceleration jerk in the z-axis plane.
61	FrequencyBodyGyroscopeMeanX	The average of: The mean of the frequency domain signal of body gyroscope in the x-axis plane.
62	FrequencyBodyGyroscopeMeanY	The average of: The mean of the frequency

	domain signal of body gyrossono in the y avis
	domain signal of body gyroscope in the y-axis plane.
63 FrequencyBodyGyroscopeMeanZ	The average of: The mean of the frequency
	domain signal of body gyroscope in the z-axis
CA Francisco Bard Communication de la communicación de la communic	plane.
64 FrequencyBodyGyroscopeStandard DeviationX	The average of: The standard deviations of the
Deviations	frequency domain signal of body gyroscope in the x-axis plane.
65 FrequencyBodyGyroscopeStandard	The average of: The standard deviations of the
DeviationY	frequency domain signal of body gyroscope in
	the y-axis plane.
66 FrequencyBodyGyroscopeStandard	The average of: The standard deviations of the
DeviationZ	frequency domain signal of body gyroscope in
C7 Fire ways and Dark Company and Advantage	the z-axis plane.
uencyX	The average of: The mean frequency of the frequency domain signal of Body gyroscope in
dencyx	the x-axis plane.
68 FrequencyBodyGyroscopeMeanFreq	The average of: The mean frequency of the
uencyY	frequency domain signal of Body gyroscope in
	the y-axis plane.
	The average of: The mean frequency of the
uencyZ	frequency domain signal of Body gyroscope in
70 FraguencyRodyAccelerationMagnitu	the z-axis plane. The average of: The mean of the frequency
deMean	domain signal of the magnitude of body
GGGG	acceleration.
71 FrequencyBodyAccelerationMagnitu	The average of: The standard deviations of of
deStandardDeviation	the frequency domain signal of the magnitude
72 Face and Bank Association March	of body acceleration.
deMeanFrequency	The average of: The mean frequency of the frequency domain signal of the magnitude of
delivieanifiequency	body acceleration.
73 FrequencyBodyBodyAccelerationJer	The average of: The mean of the frequency
kMagnitudeMean	domain signal of the magnitude of body
	acceleration jerk.
74 FrequencyBodyBodyAccelerationJer	The average of: The standard deviations of of
kMagnitudeStandardDeviation	the frequency domain signal of the magnitude
75 FrequencyBodyBodyAccelerationJer	of body acceleration jerk. The average of: The mean frequency of the
kMagnitudeMeanFrequency	frequency domain signal of the magnitude of
	body acceleration jerk.
76 FrequencyBodyBodyGyroscopeMag	The average of: The mean of the frequency
nitudeMean	domain signal of the magnitude of body
77.5	gyroscope.
77 FrequencyBodyBodyGyroscopeMag nitudeStandardDeviation	The average of: The standard deviations of of
mtuuestanuarupeviation	the frequency domain signal of the magnitude of body gyroscope.
78 FrequencyBodyBodyGyroscopeMag	The average of: The mean frequency of the

nitudeMeanFrequency	frequency domain signal of the magnitude of body gyroscope.
79 FrequencyBodyBodyGyroscopeJerk MagnitudeMean	The average of: The mean of the frequency domain signal of the magnitude of body gyroscope jerk.
80 FrequencyBodyBodyGyroscopeJerk MagnitudeStandardDeviation	The average of: The standard deviations of of the frequency domain signal of the magnitude of body gyroscope jerk.
81 FrequencyBodyBodyGyroscopeJerk MagnitudeMeanFrequency	The average of: The mean frequency of the frequency domain signal of the magnitude of body gyroscope jerk.
82 AngleTimeBodyAccelerationMeanGr avity	The average of: The angle of the frequency domain signal of body acceleration.
83 AngleTimeBodyAccelerationJerkMe anGravityMean	The average of: The angle of the frequency domain signal of body acceleration jerk.
84 AngleTimeBodyGyroscopeMeanGra vityMean	The average of: The angle of the frequency domain signal of body gyroscope.
85 AngleTimeBodyGyroscopeJerkMean GravityMean	The average of: The angle of the frequency domain signal of body gyroscope jerk.
86 AngleXGravityMean	The average of : the angle of Gravity mean in the x-axis plane.
87 AngleYGravityMean	The average of : the angle of Gravity mean in the y-axis plane.
88 AngleZGravityMean	The average of : the angle of Gravity mean in the z-axis plane.