Codebook for the “avg_features_data.txt” table

The “avg_features_data” is a tab delimited text file with following columns:

Variable	Description
activity	Activity type : Walking, Walking downstairs, Walking upstars, Sitting, Standing and Laying
subject	Unique ID of the participant
subject_type	indicates to which group (Test/Train) subject's activity data is randomly assigned to
tBodyAcc-mean()-X	Average of time domain body linear acceleration signals along X Axis for each activity and each subject
tBodyAcc-mean()-Y	Average of time domain body linear acceleration signals along Y Axis for each activity and each subject
tBodyAcc-mean()-Z	Average of time domain body linear acceleration signals along Z Axis for each activity and each subject
tGravityAcc-mean()-X	Average of time domain gravity linear acceleration signals along X Axis for each activity and each subject
tGravityAcc-mean()-Y	Average of time domain gravity linear acceleration signals along Y Axis for each activity and each subject
tGravityAcc-mean()-Z	Average of time domain gravity linear acceleration signals along Z Axis for each activity and each subject
tBodyAccJerk-mean()-X	Average of time domain body linear acceleration Jerk signals along X Axis for each activity and each subject
tBodyAccJerk-mean()-Y	Average of time domain body linear acceleration Jerk signals along Y Axis for each activity and each subject
tBodyAccJerk-mean()-Z	Average of time domain body linear acceleration Jerk signals along Z Axis for each activity and each subject
tBodyGyro-mean()-X	Average of time domain body angular velocity signals along X Axis for each activity and each subject
tBodyGyro-mean()-Y	Average of time domain body angular velocity signals along Y Axis for each activity and each subject
tBodyGyro-mean()-Z	Average of time domain body angular velocity signals along Z Axis for each activity and each subject
tBodyGyroJerk-mean()-X	Average of time domain body angular velocity Jerk signals along X Axis for each activity and each subject
tBodyGyroJerk-mean()-Y	Average of time domain body angular velocity Jerk signals along Y Axis for each activity and each subject

tBodyGyroJerk-mean()-Z	Average of time domain body angular velocity Jerk signals along Z Axis for each activity and each subject
tBodyAccMag-mean()	Average of time domain body linear acceleration magnitude across 3 dimension (XYZ) calculated using Euclidean norm for each activity and each subject
tGravityAccMag-mean()	Average of time domain gravity linear acceleration magnitude across 3 dimension (XYZ) calculated using Euclidean norm for each activity and each subject
tBodyAccJerkMag-mean()	Average of time domain body linear acceleration jerk signals magnitude across 3 dimension (XYZ) calculated using Euclidean norm for each activity and each subject
tBodyGyroMag-mean()	Average of time domain body angular velocity signals magnitude across 3 dimension (XYZ) calculated using Euclidean norm for each activity and each subject
tBodyGyroJerkMag-mean()	Average of time domain body angular velocity jerk signals jerk signals magnitude across 3 dimension (XYZ) calculated using Euclidean norm for each activity and each subject
fBodyAcc-mean()-X	Average of frequency domain body linear acceleration signals along X Axis for each activity and each subject
fBodyAcc-mean()-Y	Average of frequency domain body linear acceleration signals along Y Axis for each activity and each subject
fBodyAcc-mean()-Z	Average of frequency domain body linear acceleration signals along Z Axis for each activity and each subject
fBodyAccJerk-mean()-X	Average of frequency domain body linear acceleration Jerk signals along X Axis for each activity and each subject
fBodyAccJerk-mean()-Y	Average of frequency domain body linear acceleration Jerk signals along Y Axis for each activity and each subject
fBodyAccJerk-mean()-Z	Average of frequency domain body linear acceleration Jerk signals along Z Axis for each activity and each subject
fBodyGyro-mean()-X	Average of frequency domain body angular velocity signals along X Axis for each activity and each subject
fBodyGyro-mean()-Y	Average of frequency domain body angular velocity signals along Y Axis for each activity and each subject
fBodyGyro-mean()-Z	Average of frequency domain body angular velocity signals along Z Axis for each activity and each subject
fBodyAccMag-mean()	Average of frequency domain body linear acceleration magnitude across 3 dimension (XYZ) calculated using Euclidean norm for each activity and each subject
fBodyBodyAccJerkMag-mean()	Average of frequency domain body linear acceleration jerk signals magnitude across 3 dimension (XYZ) calculated using Euclidean norm for each activity and each subject
fBodyBodyGyroMag-mean()	Average of frequency domain body angular velocity signals magnitude across 3 dimension (XYZ) calculated using Euclidean norm for each activity and each subject

fBodyBodyGyroJerkMag-mean()	Average of frequency domain body angular velocity jerk signals magnitude across 3 dimension (XYZ) calculated using Euclidean norm for each activity and each subject
tBodyAcc-std()-X	Standard Deviation of time domain body linear acceleration signals along X Axis for each activity and each subject
tBodyAcc-std()-Y	Standard Deviation of time domain body linear acceleration signals along Y Axis for each activity and each subject
tBodyAcc-std()-Z	Standard Deviation of time domain body linear acceleration signals along Z Axis for each activity and each subject
tGravityAcc-std()-X	Standard Deviation of time domain gravity linear acceleration signals along X Axis for each activity and each subject
tGravityAcc-std()-Y	Standard Deviation of time domain gravity linear acceleration signals along Y Axis for each activity and each subject
tGravityAcc-std()-Z	Standard Deviation of time domain gravity linear acceleration signals along Z Axis for each activity and each subject
tBodyAccJerk-std()-X	Standard Deviation of time domain body linear acceleration Jerk signals along X Axis for each activity and each subject
tBodyAccJerk-std()-Y	Standard Deviation of time domain body linear acceleration Jerk signals along Y Axis for each activity and each subject
tBodyAccJerk-std()-Z	Standard Deviation of time domain body linear acceleration Jerk signals along Z Axis for each activity and each subject
tBodyGyro-std()-X	Standard Deviation of time domain body angular velocity signals along X Axis for each activity and each subject
tBodyGyro-std()-Y	Standard Deviation of time domain body angular velocity signals along Y Axis for each activity and each subject
tBodyGyro-std()-Z	Standard Deviation of time domain body angular velocity signals along Z Axis for each activity and each subject
tBodyGyroJerk-std()-X	Standard Deviation of time domain body angular velocity Jerk signals along X Axis for each activity and each subject
tBodyGyroJerk-std()-Y	Standard Deviation of time domain body angular velocity Jerk signals along Y Axis for each activity and each subject
tBodyGyroJerk-std()-Z	Standard Deviation of time domain body angular velocity Jerk signals along Z Axis for each activity and each subject
tBodyAccMag-std()	Standard Deviation of time domain body linear acceleration magnitude across 3 dimension (XYZ) calculated using Euclidean norm for each activity and each subject
tGravityAccMag-std()	Standard Deviation of time domain gravity linear acceleration magnitude across 3 dimension (XYZ) calculated using Euclidean norm for each activity and each subject
tBodyAccJerkMag-std()	Standard Deviation of time domain body linear acceleration jerk signals magnitude across 3 dimension (XYZ) calculated using Euclidean norm for each activity and each subject

tBodyGyroMag-std()	Standard Deviation of time domain body angular velocity signals magnitude across 3 dimension (XYZ) calculated using Euclidean norm for each activity and each subject
tBodyGyroJerkMag-std()	Standard Deviation of time domain body angular velocity jerk signals jerk signals magnitude across 3 dimension (XYZ) calculated using Euclidean norm for each activity and each subject
fBodyAcc-std()-X	Standard Deviation of frequency domain body linear acceleration signals along X Axis for each activity and each subject
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fBodyAccMag-std()	Standard Deviation of frequency domain body linear acceleration magnitude across 3 dimension (XYZ) calculated using Euclidean norm for each activity and each subject
fBodyBodyAccJerkMag-std()	Standard Deviation of frequency domain body linear acceleration jerk signals magnitude across 3 dimension (XYZ) calculated using Euclidean norm for each activity and each subject
fBodyBodyGyroMag-std()	Standard Deviation of frequency domain body angular velocity signals magnitude across 3 dimension (XYZ) calculated using Euclidean norm for each activity and each subject
fBodyBodyGyroJerkMag-std()	Standard Deviation of frequency domain body angular velocity jerk signals magnitude across 3 dimension (XYZ) calculated using Euclidean norm for each activity and each subject