

DATA DICTIONARY  
For  
Project Output Data Set #2  
“average\_by\_subject\_activity.txt”  
Coursera – Getting and Cleaning Data – June 2014

Original data set available at:

<http://archive.ics.uci.edu/ml/datasets/Human+Activity+Recognition+Using+Smartphones>

This data set was generated from the “train\_test\_mean.txt” data described in the CodeBookTrainTest.pdf document. This data file contains an aggregation of the “train\_test\_mean.txt” organized by subject id and activity the subject was participating in. The feature fields represent an average (i.e., mean) of the features described in the CodeBookTrainTest.pdf document for each subject averaged over the activity the subject was engaged in.

Field data for each record are comma separated and appear in the order listed below:

Subject\_Id

Id of the subject this record pertains to.

1...30

Activity

Activity subject was engaged in.

WALKING

WALKING\_UPSTAIRS

WALKING\_DOWNSTAIRS

SITTING

STANDING

LAYING

“Avg(tBodyAcc\_mean\_X)”

“Avg(tBodyAcc\_mean\_Y)”

“Avg(tBodyAcc\_mean\_Z)”

“Avg(tGravityAcc\_mean\_X)”

“Avg(tGravityAcc\_mean\_Y)”

“Avg(tGravityAcc\_mean\_Z)”

“Avg(tBodyAccJerk\_mean\_X)”

“Avg(tBodyAccJerk\_mean\_Y)”

“Avg(tBodyAccJerk\_mean\_Z)”

“Avg(tBodyGyro\_mean\_X)”

“Avg(tBodyGyro\_mean\_Y)”

"Avg(tBodyGyro\_mean\_Z)"

"Avg(tBodyGyroJerk\_mean\_X)"

"Avg(tBodyGyroJerk\_mean\_Y)"

"Avg(tBodyGyroJerk\_mean\_Z)"

"Avg(tBodyAccMag\_mean)"

"Avg(tGravityAccMag\_mean)"

"Avg(tBodyAccJerkMag\_mean)"

"Avg(tBodyGyroMag\_mean)"

"Avg(tBodyGyroJerkMag\_mean)"

"Avg(fBodyAcc\_mean\_X)"

"Avg(fBodyAcc\_mean\_Y)"

"Avg(fBodyAcc\_mean\_Z)"

"Avg(fBodyAcc\_meanFreq\_X)"

"Avg(fBodyAcc\_meanFreq\_Y)"

"Avg(fBodyAcc\_meanFreq\_Z)"

"Avg(fBodyAccJerk\_mean\_X)"

"Avg(fBodyAccJerk\_mean\_Y)"

"Avg(fBodyAccJerk\_mean\_Z)"

"Avg(fBodyAccJerk\_meanFreq\_X)"

"Avg(fBodyAccJerk\_meanFreq\_Y)"

"Avg(fBodyAccJerk\_meanFreq\_Z)"

"Avg(fBodyGyro\_mean\_X)"

"Avg(fBodyGyro\_mean\_Y)"

"Avg(fBodyGyro\_mean\_Z)"

"Avg(fBodyGyro\_meanFreq\_X)"

"Avg(fBodyGyro\_meanFreq\_Y)"

"Avg(fBodyGyro\_meanFreq\_Z)"

"Avg(fBodyAccMag\_mean)"

"Avg(fBodyAccMag\_meanFreq)"

"Avg(fBodyBodyAccJerkMag\_mean)"

"Avg(fBodyBodyAccJerkMag\_meanFreq)"

"Avg(fBodyBodyGyroMag\_mean)"

"Avg(fBodyBodyGyroMag\_meanFreq)"

"Avg(fBodyBodyGyroJerkMag\_mean)"

"Avg(fBodyBodyGyroJerkMag\_meanFreq)"

"Avg(tBodyAcc\_std\_X)"

"Avg(tBodyAcc\_std\_Y)"  
"Avg(tBodyAcc\_std\_Z)"

"Avg(tGravityAcc\_std\_X)"  
"Avg(tGravityAcc\_std\_Y)"  
"Avg(tGravityAcc\_std\_Z)"

"Avg(tBodyAccJerk\_std\_X)"  
"Avg(tBodyAccJerk\_std\_Y)"  
"Avg(tBodyAccJerk\_std\_Z)"

"Avg(tBodyGyro\_std\_X)"  
"Avg(tBodyGyro\_std\_Y)"  
"Avg(tBodyGyro\_std\_Z)"

"Avg(tBodyGyroJerk\_std\_X)"  
"Avg(tBodyGyroJerk\_std\_Y)"  
"Avg(tBodyGyroJerk\_std\_Z)"

"Avg(tBodyAccMag\_std)"  
"Avg(tGravityAccMag\_std)"  
"Avg(tBodyAccJerkMag\_std)"  
"Avg(tBodyGyroMag\_std)"  
"Avg(tBodyGyroJerkMag\_std)"

"Avg(fBodyAcc\_std\_X)"  
"Avg(fBodyAcc\_std\_Y)"  
"Avg(fBodyAcc\_std\_Z)"

"Avg(fBodyAccJerk\_std\_X)"  
"Avg(fBodyAccJerk\_std\_Y)"  
"Avg(fBodyAccJerk\_std\_Z)"

"Avg(fBodyGyro\_std\_X)"  
"Avg(fBodyGyro\_std\_Y)"  
"Avg(fBodyGyro\_std\_Z)"

"Avg(fBodyAccMag\_std)"  
"Avg(fBodyBodyAccJerkMag\_std)"  
"Avg(fBodyBodyGyroMag\_std)"  
"Avg(fBodyBodyGyroJerkMag\_std)"