**run\_analysis.R Codebook**

subject Integer

Identifies the subject (1-30) that the data pertains to

activity Character

Describes the activity the subject was participating in when the data was collected

Avg\_tBodyAcc-mean()-X Numeric

Provides the Average for the “tBodyAcc-mean()-X” measurement during the subject’s activity

Avg\_tBodyAcc-mean()-Y Numeric

Provides the Average for the “tBodyAcc-mean()-Y” measurement during the subject’s activity

Avg\_tBodyAcc-mean()-Z Numeric

Provides the Average for the “tBodyAcc-mean()-Z” measurement during the subject’s activity

Avg\_tGravityAcc-mean()-X Numeric

Provides the Average for the “tGravityAcc-mean()-X” measurement during the subject’s activity

Avg\_tGravityAcc-mean()-Y Numeric

Provides the Average for the “tGravityAcc-mean()-Y” measurement during the subject’s activity

Avg\_tGravityAcc-mean()-Z Numeric

Provides the Average for the “tGravityAcc-mean()-Z” measurement during the subject’s activity

Avg\_tBodyAccJerk-mean()-X Numeric

Provides the Average for the “tBodyAccJerk-mean()-X” measurement during the subject’s activity

Avg\_tBodyAccJerk-mean()-Y Numeric

Provides the Average for the “tBodyAccJerk-mean()-Y” measurement during the subject’s activity

Avg\_tBodyAccJerk-mean()-Z Numeric

Provides the Average for the “tBodyAccJerk-mean()-Z” measurement during the subject’s activity

Avg\_tBodyGyro-mean()-X Numeric

Provides the Average for the “tBodyGyro-mean()-X” measurement during the subject’s activity

Avg\_tBodyGyro-mean()-Y Numeric

Provides the Average for the “tBodyGyro-mean()-Y” measurement during the subject’s activity

Avg\_tBodyGyro-mean()-Z Numeric

Provides the Average for the “tBodyGyro-mean()-Z” measurement during the subject’s activity

Avg\_tBodyGyroJerk-mean()-X Numeric

Provides the Average for the “tBodyGyroJerk-mean()-X” measurement during the subject’s activity

Avg\_tBodyGyroJerk-mean()-Y Numeric

Provides the Average for the “tBodyGyroJerk-mean()-Y” measurement during the subject’s activity

Avg\_tBodyGyroJerk-mean()-Z Numeric

Provides the Average for the “tBodyGyroJerk-mean()-Z” measurement during the subject’s activity

Avg\_tBodyAccMag-mean() Numeric

Provides the Average for the “tBodyAccMag-mean()” measurement during the subject’s activity

Avg\_tGravityAccMag-mean() Numeric

Provides the Average for the “tGravityAccMag-mean()” measurement during the subject’s activity

Avg\_tBodyAccJerkMag-mean() Numeric

Provides the Average for the “tBodyAccJerkMag-mean()” measurement during the subject’s activity

Avg\_tBodyGyroMag-mean() Numeric

Provides the Average for the “tBodyGyroMag-mean()” measurement during the subject’s activity

Avg\_tBodyGyroJerkMag-mean() Numeric

Provides the Average for the “tBodyGyroJerkMag-mean()” measurement during the subject’s activity

Avg\_fBodyAcc-mean()-X Numeric

Provides the Average for the “fBodyAcc-mean()-X” measurement during the subject’s activity

Avg\_fBodyAcc-mean()-Y Numeric

Provides the Average for the “fBodyAcc-mean()-Y” measurement during the subject’s activity

Avg\_fBodyAcc-mean()-Z Numeric

Provides the Average for the “fBodyAcc-mean()-Z” measurement during the subject’s activity

Avg\_fBodyAcc-meanFreq()-X Numeric

Provides the Average for the “fBodyAcc-meanFreq()-X” measurement during the subject’s activity

Avg\_fBodyAcc-meanFreq()-Y Numeric

Provides the Average for the “fBodyAcc-meanFreq()-Y” measurement during the subject’s activity

Avg\_fBodyAcc-meanFreq()-Z Numeric

Provides the Average for the “fBodyAcc-meanFreq()-Z” measurement during the subject’s activity

Avg\_fBodyAccJerk-mean()-X Numeric

Provides the Average for the “fBodyAccJerk-mean()-X” measurement during the subject’s activity

Avg\_fBodyAccJerk-mean()-Y Numeric

Provides the Average for the “fBodyAccJerk-mean()-Y” measurement during the subject’s activity

Avg\_fBodyAccJerk-mean()-Z Numeric

Provides the Average for the “fBodyAccJerk-mean()-Z” measurement during the subject’s activity

Avg\_fBodyAccJerk-meanFreq()-X Numeric

Provides the Average for the “fBodyAccJerk-meanFreq()-X” measurement during the subject’s activity

Avg\_fBodyAccJerk-meanFreq()-Y Numeric

Provides the Average for the “fBodyAccJerk-meanFreq()-Y” measurement during the subject’s activity

Avg\_fBodyAccJerk-meanFreq()-Z Numeric

Provides the Average for the “fBodyAccJerk-meanFreq()-Z” measurement during the subject’s activity

Avg\_fBodyGyro-mean()-X Numeric

Provides the Average for the “fBodyGyro-mean()-X” measurement during the subject’s activity

Avg\_fBodyGyro-mean()-Y Numeric

Provides the Average for the “fBodyGyro-mean()-Y” measurement during the subject’s activity

Avg\_fBodyGyro-mean()-Z Numeric

Provides the Average for the “fBodyGyro-mean()-Z” measurement during the subject’s activity

Avg\_fBodyGyro-meanFreq()-X Numeric

Provides the Average for the “fBodyGyro-meanFreq()-X” measurement during the subject’s activity

Avg\_fBodyGyro-meanFreq()-Y Numeric

Provides the Average for the “fBodyGyro-meanFreq()-Y” measurement during the subject’s activity

Avg\_fBodyGyro-meanFreq()-Z Numeric

Provides the Average for the “fBodyGyro-meanFreq()-Z” measurement during the subject’s activity

Avg\_fBodyAccMag-mean() Numeric

Provides the Average for the “fBodyAccMag-mean()” measurement during the subject’s activity

Avg\_fBodyAccMag-meanFreq() Numeric

Provides the Average for the “fBodyAccMag-meanFreq()” measurement during the subject’s activity

Avg\_fBodyBodyAccJerkMag-mean() Numeric

Provides the Average for the “fBodyBodyAccJerkMag-mean()” measurement during the subject’s activity

Avg\_fBodyBodyAccJerkMag-meanFreq() Numeric

Provides the Average for the “fBodyBodyAccJerkMag-meanFreq()” measurement during the subject’s activity

Avg\_fBodyBodyGyroMag-mean() Numeric

Provides the Average for the “fBodyBodyGyroMag-mean()” measurement during the subject’s activity

Avg\_fBodyBodyGyroMag-meanFreq() Numeric

Provides the Average for the “fBodyBodyGyroMag-meanFreq()” measurement during the subject’s activity

Avg\_fBodyBodyGyroJerkMag-mean() Numeric

Provides the Average for the “fBodyBodyGyroJerkMag-mean()” measurement during the subject’s activity

Avg\_fBodyBodyGyroJerkMag-meanFreq() Numeric

Provides the Average for the “fBodyBodyGyroJerkMag-meanFreq()” measurement during the subject’s activity

Avg\_tBodyAcc-std()-X Numeric

Provides the Average for the “tBodyAcc-std()-X” measurement during the subject’s activity

Avg\_tBodyAcc-std()-Y Numeric

Provides the Average for the “tBodyAcc-std()-Y” measurement during the subject’s activity

Avg\_tBodyAcc-std()-Z Numeric

Provides the Average for the “tBodyAcc-std()-Z” measurement during the subject’s activity

Avg\_tGravityAcc-std()-X Numeric

Provides the Average for the “tGravityAcc-std()-X” measurement during the subject’s activity

Avg\_tGravityAcc-std()-Y Numeric

Provides the Average for the “tGravityAcc-std()-Y” measurement during the subject’s activity

Avg\_tGravityAcc-std()-Z Numeric

Provides the Average for the “tGravityAcc-std()-Z” measurement during the subject’s activity

Avg\_tBodyAccJerk-std()-X Numeric

Provides the Average for the “tBodyAccJerk-std()-X” measurement during the subject’s activity

Avg\_tBodyAccJerk-std()-Y Numeric

Provides the Average for the “tBodyAccJerk-std()-Y” measurement during the subject’s activity

Avg\_tBodyAccJerk-std()-Z Numeric

Provides the Average for the “tBodyAccJerk-std()-Z” measurement during the subject’s activity

Avg\_tBodyGyro-std()-X Numeric

Provides the Average for the “tBodyGyro-std()-X” measurement during the subject’s activity

Avg\_tBodyGyro-std()-Y Numeric

Provides the Average for the “tBodyGyro-std()-Y” measurement during the subject’s activity

Avg\_tBodyGyro-std()-Z Numeric

Provides the Average for the “tBodyGyro-std()-Z” measurement during the subject’s activity

Avg\_tBodyGyroJerk-std()-X Numeric

Provides the Average for the “tBodyGyroJerk-std()-X” measurement during the subject’s activity

Avg\_tBodyGyroJerk-std()-Y Numeric

Provides the Average for the “tBodyGyroJerk-std()-Y” measurement during the subject’s activity

Avg\_tBodyGyroJerk-std()-Z Numeric

Provides the Average for the “tBodyGyroJerk-std()-Z” measurement during the subject’s activity

Avg\_tBodyAccMag-std() Numeric

Provides the Average for the “tBodyAccMag-std()” measurement during the subject’s activity

Avg\_tGravityAccMag-std() Numeric

Provides the Average for the “tGravityAccMag-std()” measurement during the subject’s activity

Avg\_tBodyAccJerkMag-std() Numeric

Provides the Average for the “tBodyAccJerkMag-std()” measurement during the subject’s activity

Avg\_tBodyGyroMag-std() Numeric

Provides the Average for the “tBodyGyroMag-std()” measurement during the subject’s activity

Avg\_tBodyGyroJerkMag-std() Numeric

Provides the Average for the “tBodyGyroJerkMag-std()” measurement during the subject’s activity

Avg\_fBodyAcc-std()-X Numeric

Provides the Average for the “fBodyAcc-std()-X” measurement during the subject’s activity

Avg\_fBodyAcc-std()-Y Numeric

Provides the Average for the “fBodyAcc-std()-Y” measurement during the subject’s activity

Avg\_fBodyAcc-std()-Z Numeric

Provides the Average for the “fBodyAcc-std()-Z” measurement during the subject’s activity

Avg\_fBodyAccJerk-std()-X Numeric

Provides the Average for the “fBodyAccJerk-std()-X” measurement during the subject’s activity

Avg\_fBodyAccJerk-std()-Y Numeric

Provides the Average for the “fBodyAccJerk-std()-Y” measurement during the subject’s activity

Avg\_fBodyAccJerk-std()-Z Numeric

Provides the Average for the “fBodyAccJerk-std()-Z” measurement during the subject’s activity

Avg\_fBodyGyro-std()-X Numeric

Provides the Average for the “fBodyGyro-std()-X” measurement during the subject’s activity

Avg\_fBodyGyro-std()-Y Numeric

Provides the Average for the “fBodyGyro-std()-Y” measurement during the subject’s activity

Avg\_fBodyGyro-std()-Z Numeric

Provides the Average for the “fBodyGyro-std()-Z” measurement during the subject’s activity

Avg\_fBodyAccMag-std() Numeric

Provides the Average for the “fBodyAccMag-std()” measurement during the subject’s activity

Avg\_fBodyBodyAccJerkMag-std() Numeric

Provides the Average for the “fBodyBodyAccJerkMag-std()” measurement during the subject’s activity

Avg\_fBodyBodyGyroMag-std() Numeric

Provides the Average for the “fBodyBodyGyroMag-std()” measurement during the subject’s activity

Avg\_fBodyBodyGyroJerkMag-std() Numeric

Provides the Average for the “fBodyBodyGyroJerkMag-std()” measurement during the subject’s activity