Codebook

The source datasets are taken from The Human Activity Recognition Using Smartphones Dataset, Version 1.0. (Davide Anguita, Alessandro Ghio, Luca Oneto, Xavier Parra and Jorge L. Reyes-Ortiz. Human Activity Recognition on Smartphones using a Multiclass Hardware-Friendly Support Vector Machine. International Workshop of Ambient Assisted Living (IWAAL 2012). Vitoria-Gasteiz, Spain. Dec 2012).

The data has been cleansed into a format that provides summary data, by activity, for each subject. For more information about the source of each measurement, see the source study referenced above.

Data columns are as follows:

|  |  |
| --- | --- |
| SubjectNumber | Subject number identifies the subject to whom the measurement applies. Has range 1 to 30. |
| Activity | WALKING  WALKING UPSTAIRS  WALKING DOWNSTAIRS  SITTING  STANDING  LAYING |
| timeBodyAccMean-X | Average, for this subject and activity, of all measurements of the variable tBodyAcc-mean()-X. |
| timeBodyAccMean-Y | Average, for this subject and activity, of all measurements of the variable tBodyAcc-mean()-Y. |
| timeBodyAccMean-Z | Average, for this subject and activity, of all measurements of the variable tBodyAcc-mean()-Z. |
| timeBodyAccStd-X | Average, for this subject and activity, of all measurements of the variable tBodyAcc-std()-X. |
| timeBodyAccStd-Y | Average, for this subject and activity, of all measurements of the variable tBodyAcc-std()-Y. |
| imeBodyAccStd-Z | Average, for this subject and activity, of all measurements of the variable tBodyAcc-std()-Z. |
| timeGravityAccMean-X | Average, for this subject and activity, of all measurements of the variable tGravityAcc-mean()-X. |
| timeGravityAccMean-Y | Average, for this subject and activity, of all measurements of the variable tGravityAcc-mean()-Y. |
| timeGravityAccMean-Z | Average, for this subject and activity, of all measurements of the variable tGravityAcc-mean()-Z. |
| timeGravityAccStd-X | Average, for this subject and activity, of all measurements of the variable tGravityAcc-std()-X. |
| timeGravityAccStd-Y | Average, for this subject and activity, of all measurements of the variable tGravityAcc-std()-Y. |
| timeGravityAccStd-Z | Average, for this subject and activity, of all measurements of the variable tGravityAcc-std()-Z. |
| timeBodyAccJerkMean-X | Average, for this subject and activity, of all measurements of the variable tBodyAccJerk-mean()-X. |
| timeBodyAccJerkMean-Y | Average, for this subject and activity, of all measurements of the variable tBodyAccJerk-mean()-Y. |
| timeBodyAccJerkMean-Z | Average, for this subject and activity, of all measurements of the variable tBodyAccJerk-mean()-Z. |
| timeBodyAccJerkStd-X | Average, for this subject and activity, of all measurements of the variable tBodyAccJerk-std()-X. |
| timeBodyAccJerkStd-Y | Average, for this subject and activity, of all measurements of the variable tBodyAccJerk-std()-Y. |
| timeBodyAccJerkStd-Z | Average, for this subject and activity, of all measurements of the variable tBodyAccJerk-std()-Z. |
| timeBodyGyroMean-X | Average, for this subject and activity, of all measurements of the variable tBodyGyro – mean()-X. |
| timeBodyGyroMean-Y | Average, for this subject and activity, of all measurements of the variable tBodyGyro – mean()-Y. |
| timeBodyGyroMean-Z | Average, for this subject and activity, of all measurements of the variable tBodyGyro – mean()-Z. |
| timeBodyGyroStd-X | Average, for this subject and activity, of all measurements of the variable tBodyGyro – std()-X. |
| timeBodyGyroStd-Y | Average, for this subject and activity, of all measurements of the variable tBodyGyro – std()-Y. |
| timeBodyGyroStd-Z | Average, for this subject and activity, of all measurements of the variable tBodyGyro – std()-Z. |
| timeBodyGyroJerkMean-X | Average, for this subject and activity, of all measurements of the variable tBodyGyroJerk – mean()-X. |
| timeBodyGyroJerkMean-Y | Average, for this subject and activity, of all measurements of the variable tBodyGyroJerk – mean()-Y. |
| timeBodyGyroJerkMean-Z | Average, for this subject and activity, of all measurements of the variable tBodyGyroJerk – mean()-Z. |
| timeBodyGyroJerkStd-X | Average, for this subject and activity, of all measurements of the variable tBodyGyroJerk -std()-X. |
| timeBodyGyroJerkStd-Y | Average, for this subject and activity, of all measurements of the variable tBodyGyroJerk -std()-Y. |
| timeBodyGyroJerkStd-Z | Average, for this subject and activity, of all measurements of the variable tBodyGyroJerk -std()-Z. |
| timeBodyAccMagMean | Average, for this subject and activity, of all measurements of the variable tBodyAccMag-mean() |
| timeBodyAccMagStd | Average, for this subject and activity, of all measurements of the variable tBodyAccMag-std() |
| timeGravityAccMagMean | Average, for this subject and activity, of all measurements of the variable tGravityAccMag-mean() |
| timeGravityAccMagStd | Average, for this subject and activity, of all measurements of the variable tGravityAccMag-std() |
| timeBodyAccJerkMagMean | Average, for this subject and activity, of all measurements of the variable tBodyAccJerkMag-mean() |
| timeBodyAccJerkMagStd | Average, for this subject and activity, of all measurements of the variable tBodyAccJerkMag-std() |
| timeBodyGyroMagMean | Average, for this subject and activity, of all measurements of the variable tBodyGyroMag-mean() |
| timeBodyGyroMagStd | Average, for this subject and activity, of all measurements of the variable tBodyGyroMag-std() |
| timeBodyGyroJerkMagMean | Average, for this subject and activity, of all measurements of the variable tBodyGyroJerkMag-mean() |
| timeBodyGyroJerkMagStd | Average, for this subject and activity, of all measurements of the variable tBodyGyroJerkMag-std() |
| frequencyBodyAccMean-X | Average, for this subject and activity, of all measurements of the variable fBodyAcc-mean()-X. |
| frequencyBodyAccMean-Y | Average, for this subject and activity, of all measurements of the variable fBodyAcc-mean()-Y. |
| frequencyBodyAccMean-Z | Average, for this subject and activity, of all measurements of the variable fBodyAcc-mean()-Z. |
| frequencyBodyAccStd-X | Average, for this subject and activity, of all measurements of the variable fBodyAcc-std()-X. |
| frequencyBodyAccStd-Y | Average, for this subject and activity, of all measurements of the variable fBodyAcc-std()-Y. |
| frequencyBodyAccStd-Z | Average, for this subject and activity, of all measurements of the variable fBodyAcc-std()-Z. |
| frequencyBodyAccMeanFreq()-X | Average, for this subject and activity, of all measurements of the variable fBodyAcc - meanFreq()-X. |
| frequencyBodyAccMeanFreq()-Y | Average, for this subject and activity, of all measurements of the variable fBodyAcc - meanFreq()-Y |
| frequencyBodyAccMeanFreq()-Z | Average, for this subject and activity, of all measurements of the variable fBodyAcc - meanFreq()-z. |
| frequencyBodyAccJerkMean-X | Average, for this subject and activity, of all measurements of the variable fBodyAccJerk-mean()-X. |
| frequencyBodyAccJerkMean-Y | Average, for this subject and activity, of all measurements of the variable fBodyAccJerk-mean()-Y. |
| frequencyBodyAccJerkMean-Z | Average, for this subject and activity, of all measurements of the variable fBodyAccJerk-mean()-Z. |
| frequencyBodyAccJerkStd-X | Average, for this subject and activity, of all measurements of the variable fBodyAccJerk-std()-X. |
| frequencyBodyAccJerkStd-Y | Average, for this subject and activity, of all measurements of the variable fBodyAccJerk-std()-Y. |
| frequencyBodyAccJerkStd-Z | Average, for this subject and activity, of all measurements of the variable fBodyAccJerk-std()-Z. |
| frequencyBodyAccJerkMeanFreq()-X | Average, for this subject and activity, of all measurements of the variable fBodyAccJerk-meanFreq() -X. |
| frequencyBodyAccJerkMeanFreq()-Y | Average, for this subject and activity, of all measurements of the variable fBodyAccJerk-meanFreq() -y. |
| frequencyBodyAccJerkMeanFreq()-Z | Average, for this subject and activity, of all measurements of the variable fBodyAccJerk-meanFreq() -Z. |
| frequencyBodyGyroMean-X | Average, for this subject and activity, of all measurements of the variable fBodyGyro - mean-X. |
| frequencyBodyGyroMean-Y | Average, for this subject and activity, of all measurements of the variable fBodyGyro - mean-Y. |
| frequencyBodyGyroMean-Z | Average, for this subject and activity, of all measurements of the variable fBodyGyro - mean-Z. |
| frequencyBodyGyroStd-X | Average, for this subject and activity, of all measurements of the variable fBodyGyro - std-X. |
| frequencyBodyGyroStd-Y | Average, for this subject and activity, of all measurements of the variable fBodyGyro - std-Y. |
| frequencyBodyGyroStd-Z | Average, for this subject and activity, of all measurements of the variable fBodyGyro - std-Z. |
| frequencyBodyGyroMeanFreq()-X | Average, for this subject and activity, of all measurements of the variable fBodyGyro-meanFreq()-X. |
| frequencyBodyGyroMeanFreq()-Y | Average, for this subject and activity, of all measurements of the variable fBodyGyro-meanFreq()-Y. |
| frequencyBodyGyroMeanFreq()-Z | Average, for this subject and activity, of all measurements of the variable fBodyGyro-meanFreq()-Z. |
| frequencyBodyAccMagMean | Average, for this subject and activity, of all measurements of the variable fBodyAccMag-mean() -X. |
| frequencyBodyAccMagStd | Average, for this subject and activity, of all measurements of the variable fBodyAccMag-mean()-Y. |
| frequencyBodyAccMagMeanFreq() | Average, for this subject and activity, of all measurements of the variable fBodyAccMag-mean()-Z. |
| frequencyBodyBodyAccJerkMagMean | Average, for this subject and activity, of all measurements of the variable fBodyBodyAccJerkMag-mean() |
| frequencyBodyBodyAccJerkMagStd | Average, for this subject and activity, of all measurements of the variable fBodyBodyAccJerkMag-std() |
| frequencyBodyBodyAccJerkMagMeanFreq() | Average, for this subject and activity, of all measurements of the variable fBodyBodyAccJerkMag-meanFreq() |
| frequencyBodyBodyGyroMagMean | Average, for this subject and activity, of all measurements of the variable fBodyBodyGyroMag-mean() |
| frequencyBodyBodyGyroMagStd | Average, for this subject and activity, of all measurements of the variable fBodyBodyGyroMag-std() |
| frequencyBodyBodyGyroMagMeanFreq() | Average, for this subject and activity, of all measurements of the variable tBodyBodyGyroMag-meanFreq() |
| frequencyBodyBodyGyroJerkMagMean | Average, for this subject and activity, of all measurements of the variable fBodyBodyGyroJerkMag-mean() |
| frequencyBodyBodyGyroJerkMagStd | Average, for this subject and activity, of all measurements of the variable fBodyBodyGyroJerkMag-std() |
| frequencyBodyBodyGyroJerkMagMeanFreq() | Average, for this subject and activity, of all measurements of the variable fBodyBodyGyroJerkMag-meanFreq() |