# Study Design

The data linked to from the course website represent data collected from the accelerometers from the Samsung Galaxy S smartphone. A full description is available at the site where the data was obtained:

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

Here are the data for the project:

<https://d396qusza40orc.cloudfront.net/getdata%2Fprojectfiles%2FUCI%20HAR%20Dataset.zip>

For more information contact: [activityrecognition@smartlab.ws](mailto:activityrecognition@smartlab.ws)

The experiments have been carried out with a group of 30 volunteers within an age bracket of 19-48 years. Each person performed six activities (WALKING, WALKING\_UPSTAIRS, WALKING\_DOWNSTAIRS, SITTING, STANDING, LAYING) wearing a smartphone (Samsung Galaxy S II) on the waist. Using its embedded accelerometer and gyroscope, we captured 3-axial linear acceleration and 3-axial angular velocity at a constant rate of 50Hz. The experiments have been video-recorded to label the data manually. The obtained dataset has been randomly partitioned into two sets, where 70% of the volunteers was selected for generating the training data and 30% the test data.

The sensor signals (accelerometer and gyroscope) were pre-processed by applying noise filters and then sampled in fixed-width sliding windows of 2.56 sec and 50% overlap (128 readings/window). The sensor acceleration signal, which has gravitational and body motion components, was separated using a Butterworth low-pass filter into body acceleration and gravity. The gravitational force is assumed to have only low frequency components, therefore a filter with 0.3 Hz cutoff frequency was used. From each window, a vector of features was obtained by calculating variables from the time and frequency domain.

Each record contains the following: triaxial acceleration from the accelerometer (total acceleration) and the estimated body acceleration, triaxial angular velocity from the gyroscope, a 561-feature vector with time and frequency domain variables, an activity label, and an identifier of the subject who carried out the experiment. Features are normalized and bounded within [-1,1].

The features selected for this database come from the accelerometer and gyroscope 3-axial raw signals tAcc-XYZ and tGyro-XYZ. These time domain signals (prefix 't' to denote time) were captured at a constant rate of 50 Hz. Then they were filtered using a median filter and a 3rd order low pass Butterworth filter with a corner frequency of 20 Hz to remove noise. Similarly, the acceleration signal was then separated into body and gravity acceleration signals (tBodyAcc-XYZ and tGravityAcc-XYZ) using another low pass Butterworth filter with a corner frequency of 0.3 Hz. Subsequently, the body linear acceleration and angular velocity were derived in time to obtain Jerk signals (tBodyAccJerk-XYZ and tBodyGyroJerk-XYZ). Also the magnitude of these three-dimensional signals were calculated using the Euclidean norm (tBodyAccMag, tGravityAccMag, tBodyAccJerkMag, tBodyGyroMag, tBodyGyroJerkMag). Finally a Fast Fourier Transform (FFT) was applied to some of these signals producing fBodyAcc-XYZ, fBodyAccJerk-XYZ, fBodyGyro-XYZ, fBodyAccJerkMag, fBodyGyroMag, fBodyGyroJerkMag. (Note the 'f' to indicate frequency domain signals). These signals were used to estimate variables of the feature vector for each pattern: '-XYZ' is used to denote 3-axial signals in the X, Y and Z directions.

# Codebook for combined\_tidy

Autogenerated data summary from dataMaid

2019-05-22 10:31:22

# Data report overview

The dataset examined has the following dimensions:

|  |  |
| --- | --- |
| Feature | Result |
| Number of observations | 10299 |
| Number of variables | 70 |

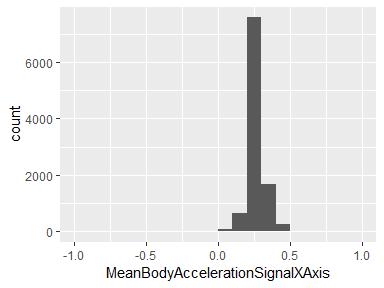
# Codebook summary table

|  |  |  |  |
| --- | --- | --- | --- |
| Variable | Class | # unique values | Missing |
| [**MeanBodyAccelerationSignalXAxis**](#meanbodyaccelerationsignalxaxis) | numeric | 10292 | 0.00 % |
| [**MeanBodyAccelerationSignalYAxis**](#meanbodyaccelerationsignalyaxis) | numeric | 10299 | 0.00 % |
| [**MeanBodyAccelerationSignalZAxis**](#meanbodyaccelerationsignalzaxis) | numeric | 10293 | 0.00 % |
| [**MeanGravityAccelerationSignalXAxis**](#meangravityaccelerationsignalxaxis) | numeric | 10296 | 0.00 % |
| [**MeanGravityAccelerationSignalYAxis**](#meangravityaccelerationsignalyaxis) | numeric | 10298 | 0.00 % |
| [**MeanGravityAccelerationSignalZAxis**](#meangravityaccelerationsignalzaxis) | numeric | 10299 | 0.00 % |
| [**MeanBodyAccelerationJerkSignalXAxis**](#meanbodyaccelerationjerksignalxaxis) | numeric | 10299 | 0.00 % |
| [**MeanBodyAccelerationJerkSignalYAxis**](#meanbodyaccelerationjerksignalyaxis) | numeric | 10299 | 0.00 % |
| [**MeanBodyAccelerationJerkSignalZAxis**](#meanbodyaccelerationjerksignalzaxis) | numeric | 10299 | 0.00 % |
| [**MeanBodyGyroSignalXAxis**](#meanbodygyrosignalxaxis) | numeric | 10298 | 0.00 % |
| [**MeanBodyGyroSignalYAxis**](#meanbodygyrosignalyaxis) | numeric | 10299 | 0.00 % |
| [**MeanBodyGyroSignalZAxis**](#meanbodygyrosignalzaxis) | numeric | 10297 | 0.00 % |
| [**MeanBodyGyroJerkSignalXAxis**](#meanbodygyrojerksignalxaxis) | numeric | 10295 | 0.00 % |
| [**MeanBodyGyroJerkSignalYAxis**](#meanbodygyrojerksignalyaxis) | numeric | 10299 | 0.00 % |
| [**MeanBodyGyroJerkSignalZAxis**](#meanbodygyrojerksignalzaxis) | numeric | 10298 | 0.00 % |
| [**MeanMagnitudeOfBodyAccelerationSignal**](#meanmagnitudeofbodyaccelerationsignal) | numeric | 10296 | 0.00 % |
| [**MeanMagnitudeOfGravityAccelerationSignal**](#meanmagnitudeofgravityaccelerationsignal) | numeric | 10296 | 0.00 % |
| [**MeanMagnitudeOfBodyAccelerationJerkSignal**](#meanmagnitudeofbodyaccelerationjerksignal) | numeric | 10292 | 0.00 % |
| [**MeanMagnitudeOfBodyGyroSignal**](#meanmagnitudeofbodygyrosignal) | numeric | 10298 | 0.00 % |
| [**MeanMagnitudeOfBodyGyroJerkSignal**](#meanmagnitudeofbodygyrojerksignal) | numeric | 10293 | 0.00 % |
| [**MeanFrequencyDomainBodyAccelerationSignalXAxis**](#meanfrequencydomainbodyaccelerationsignalxaxis) | numeric | 10295 | 0.00 % |
| [**MeanFrequencyDomainBodyAccelerationSignalYAxis**](#meanfrequencydomainbodyaccelerationsignalyaxis) | numeric | 10292 | 0.00 % |
| [**MeanFrequencyDomainBodyAccelerationSignalZAxis**](#meanfrequencydomainbodyaccelerationsignalzaxis) | numeric | 10295 | 0.00 % |
| [**MeanFrequencyDomainBodyAccelerationJerkSignalXAxis**](#meanfrequencydomainbodyaccelerationjerksignalxaxis) | numeric | 10293 | 0.00 % |
| [**MeanFrequencyDomainBodyAccelerationJerkSignalYAxis**](#meanfrequencydomainbodyaccelerationjerksignalyaxis) | numeric | 10296 | 0.00 % |
| [**MeanFrequencyDomainBodyAccelerationJerkSignalZAxis**](#meanfrequencydomainbodyaccelerationjerksignalzaxis) | numeric | 10294 | 0.00 % |
| [**MeanFrequencyDomainBodyGyroSignalXAxis**](#meanfrequencydomainbodygyrosignalxaxis) | numeric | 10297 | 0.00 % |
| [**MeanFrequencyDomainBodyGyroSignalYAxis**](#meanfrequencydomainbodygyrosignalyaxis) | numeric | 10296 | 0.00 % |
| [**MeanFrequencyDomainBodyGyroSignalZAxis**](#meanfrequencydomainbodygyrosignalzaxis) | numeric | 10297 | 0.00 % |
| [**MeanMagnitudeOfBodyAccelerationFrequencyDomainSignal**](#meanmagnitudeofbodyaccelerationfrequencydomainsignal) | numeric | 10296 | 0.00 % |
| [**MeanMagnitudeOfBodyAccelerationJerkFrequencyDomainSignal**](#meanmagnitudeofbodyaccelerationjerkfrequencydomainsignal) | numeric | 10290 | 0.00 % |
| [**MeanMagnitudeOfBodyGyroFrequencyDomainSignal**](#meanmagnitudeofbodygyrofrequencydomainsignal) | numeric | 10297 | 0.00 % |
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| [**StdBodyAccelerationSignalXAxis**](#stdbodyaccelerationsignalxaxis) | numeric | 10295 | 0.00 % |
| [**StdBodyAccelerationSignalYAxis**](#stdbodyaccelerationsignalyaxis) | numeric | 10297 | 0.00 % |
| [**StdBodyAccelerationSignalZAxis**](#stdbodyaccelerationsignalzaxis) | numeric | 10297 | 0.00 % |
| [**StdGravityAccelerationSignalXAxis**](#stdgravityaccelerationsignalxaxis) | numeric | 10288 | 0.00 % |
| [**StdGravityAccelerationSignalYAxis**](#stdgravityaccelerationsignalyaxis) | numeric | 10293 | 0.00 % |
| [**StdGravityAccelerationSignalZAxis**](#stdgravityaccelerationsignalzaxis) | numeric | 10296 | 0.00 % |
| [**StdBodyAccelerationJerkSignalXAxis**](#stdbodyaccelerationjerksignalxaxis) | numeric | 10290 | 0.00 % |
| [**StdBodyAccelerationJerkSignalYAxis**](#stdbodyaccelerationjerksignalyaxis) | numeric | 10296 | 0.00 % |
| [**StdBodyAccelerationJerkSignalZAxis**](#stdbodyaccelerationjerksignalzaxis) | numeric | 10293 | 0.00 % |
| [**StdBodyGyroSignalXAxis**](#stdbodygyrosignalxaxis) | numeric | 10292 | 0.00 % |
| [**StdBodyGyroSignalYAxis**](#stdbodygyrosignalyaxis) | numeric | 10296 | 0.00 % |
| [**StdBodyGyroSignalZAxis**](#stdbodygyrosignalzaxis) | numeric | 10296 | 0.00 % |
| [**StdBodyGyroJerkSignalXAxis**](#stdbodygyrojerksignalxaxis) | numeric | 10292 | 0.00 % |
| [**StdBodyGyroJerkSignalYAxis**](#stdbodygyrojerksignalyaxis) | numeric | 10295 | 0.00 % |
| [**StdBodyGyroJerkSignalZAxis**](#stdbodygyrojerksignalzaxis) | numeric | 10291 | 0.00 % |
| [**StdMagnitudeOfBodyAccelerationSignal**](#stdmagnitudeofbodyaccelerationsignal) | numeric | 10294 | 0.00 % |
| [**StdMagnitudeOfGravityAccelerationSignal**](#stdmagnitudeofgravityaccelerationsignal) | numeric | 10294 | 0.00 % |
| [**StdMagnitudeOfBodyAccelerationJerkSignal**](#stdmagnitudeofbodyaccelerationjerksignal) | numeric | 10294 | 0.00 % |
| [**StdMagnitudeOfBodyGyroSignal**](#stdmagnitudeofbodygyrosignal) | numeric | 10298 | 0.00 % |
| [**StdMagnitudeOfBodyGyroJerkSignal**](#stdmagnitudeofbodygyrojerksignal) | numeric | 10297 | 0.00 % |
| [**StdFrequencyDomainBodyAccelerationSignalXAxis**](#stdfrequencydomainbodyaccelerationsignalxaxis) | numeric | 10294 | 0.00 % |
| [**StdFrequencyDomainBodyAccelerationSignalYAxis**](#stdfrequencydomainbodyaccelerationsignalyaxis) | numeric | 10297 | 0.00 % |
| [**StdFrequencyDomainBodyAccelerationSignalZAxis**](#stdfrequencydomainbodyaccelerationsignalzaxis) | numeric | 10296 | 0.00 % |
| [**StdFrequencyDomainBodyAccelerationJerkSignalXAxis**](#stdfrequencydomainbodyaccelerationjerksignalxaxis) | numeric | 10291 | 0.00 % |
| [**StdFrequencyDomainBodyAccelerationJerkSignalYAxis**](#stdfrequencydomainbodyaccelerationjerksignalyaxis) | numeric | 10294 | 0.00 % |
| [**StdFrequencyDomainBodyAccelerationJerkSignalZAxis**](#stdfrequencydomainbodyaccelerationjerksignalzaxis) | numeric | 10290 | 0.00 % |
| [**StdFrequencyDomainBodyGyroSignalXAxis**](#stdfrequencydomainbodygyrosignalxaxis) | numeric | 10297 | 0.00 % |
| [**StdFrequencyDomainBodyGyroSignalYAxis**](#stdfrequencydomainbodygyrosignalyaxis) | numeric | 10293 | 0.00 % |
| [**StdFrequencyDomainBodyGyroSignalZAxis**](#stdfrequencydomainbodygyrosignalzaxis) | numeric | 10295 | 0.00 % |
| [**StdMagnitudeOfBodyAccelerationFrequencyDomainSignal**](#stdmagnitudeofbodyaccelerationfrequencydomainsignal) | numeric | 10298 | 0.00 % |
| [**StdMagnitudeOfBodyAccelerationJerkFrequencyDomainSignal**](#stdmagnitudeofbodyaccelerationjerkfrequencydomainsignal) | numeric | 10296 | 0.00 % |
| [**StdMagnitudeOfBodyGyroFrequencyDomainSignal**](#stdmagnitudeofbodygyrofrequencydomainsignal) | numeric | 10296 | 0.00 % |
| [**StdMagnitudeOfBodyGyroJerkFrequencyDomainSignal**](#stdmagnitudeofbodygyrojerkfrequencydomainsignal) | numeric | 10292 | 0.00 % |
| [**activitynumber**](#activitynumber) | integer | 6 | 0.00 % |
| [**activityname**](#activityname) | factor | 6 | 0.00 % |
| [**volunteerid**](#volunteerid) | integer | 30 | 0.00 % |
| [**sample**](#sample) | character | 2 | 0.00 % |

# Variable list

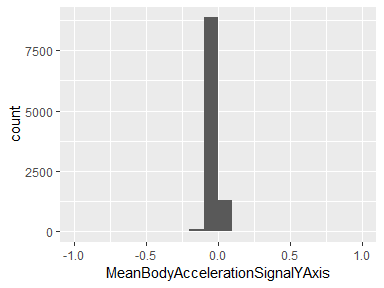
## MeanBodyAccelerationSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10292 |
| Median | 0.28 |
| 1st and 3rd quartiles | 0.26; 0.29 |
| Min. and max. | -1; 1 |



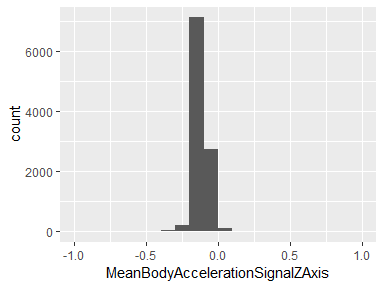
## MeanBodyAccelerationSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10299 |
| Median | -0.02 |
| 1st and 3rd quartiles | -0.02; -0.01 |
| Min. and max. | -1; 1 |



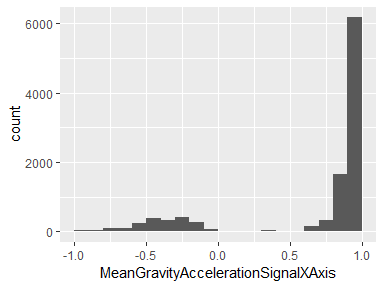
## MeanBodyAccelerationSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10293 |
| Median | -0.11 |
| 1st and 3rd quartiles | -0.12; -0.1 |
| Min. and max. | -1; 1 |



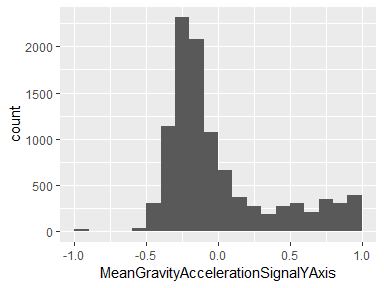
## MeanGravityAccelerationSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10296 |
| Median | 0.92 |
| 1st and 3rd quartiles | 0.81; 0.95 |
| Min. and max. | -1; 1 |



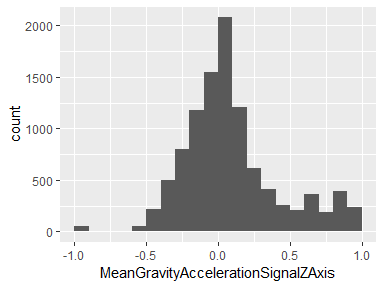
## MeanGravityAccelerationSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10298 |
| Median | -0.14 |
| 1st and 3rd quartiles | -0.24; 0.12 |
| Min. and max. | -1; 1 |



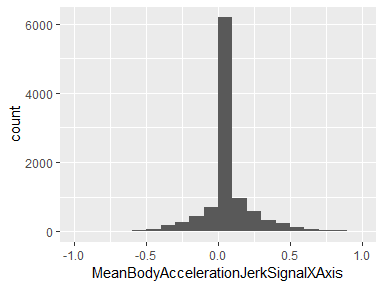
## MeanGravityAccelerationSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10299 |
| Median | 0.04 |
| 1st and 3rd quartiles | -0.12; 0.22 |
| Min. and max. | -1; 1 |



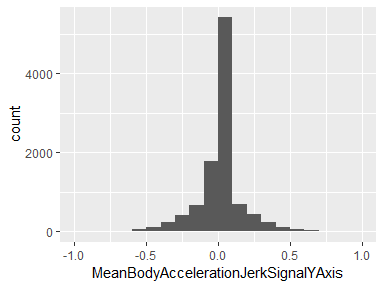
## MeanBodyAccelerationJerkSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10299 |
| Median | 0.08 |
| 1st and 3rd quartiles | 0.06; 0.09 |
| Min. and max. | -1; 1 |



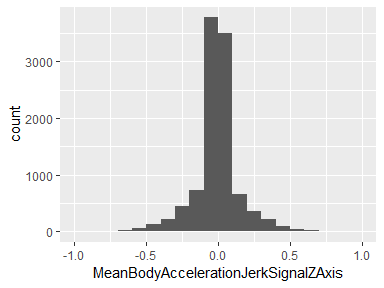
## MeanBodyAccelerationJerkSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10299 |
| Median | 0.01 |
| 1st and 3rd quartiles | -0.02; 0.03 |
| Min. and max. | -1; 1 |



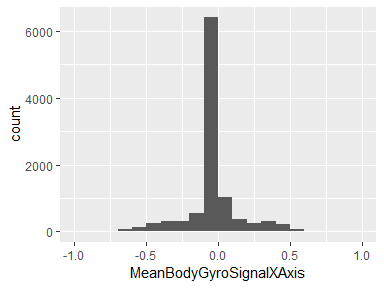
## MeanBodyAccelerationJerkSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10299 |
| Median | 0 |
| 1st and 3rd quartiles | -0.03; 0.02 |
| Min. and max. | -1; 1 |



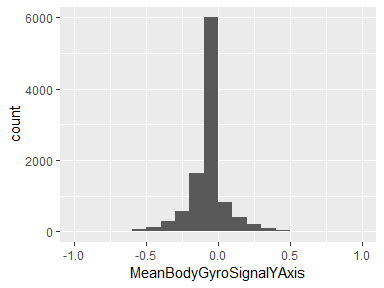
## MeanBodyGyroSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10298 |
| Median | -0.03 |
| 1st and 3rd quartiles | -0.05; -0.01 |
| Min. and max. | -1; 1 |



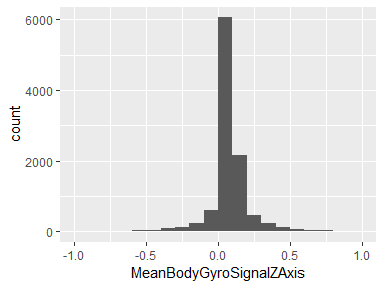
## MeanBodyGyroSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10299 |
| Median | -0.07 |
| 1st and 3rd quartiles | -0.1; -0.05 |
| Min. and max. | -1; 1 |



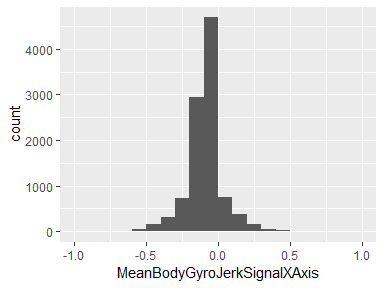
## MeanBodyGyroSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10297 |
| Median | 0.09 |
| 1st and 3rd quartiles | 0.06; 0.11 |
| Min. and max. | -1; 1 |



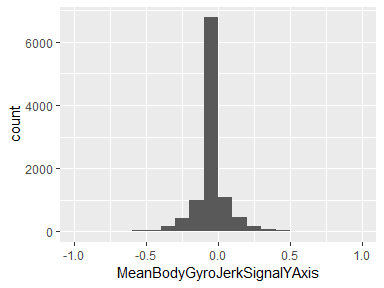
## MeanBodyGyroJerkSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10295 |
| Median | -0.1 |
| 1st and 3rd quartiles | -0.12; -0.08 |
| Min. and max. | -1; 1 |



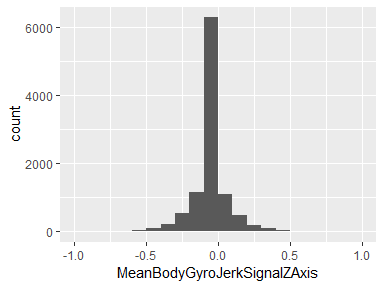
## MeanBodyGyroJerkSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10299 |
| Median | -0.04 |
| 1st and 3rd quartiles | -0.06; -0.03 |
| Min. and max. | -1; 1 |



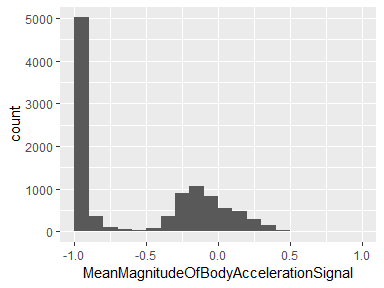
## MeanBodyGyroJerkSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10298 |
| Median | -0.05 |
| 1st and 3rd quartiles | -0.08; -0.03 |
| Min. and max. | -1; 1 |



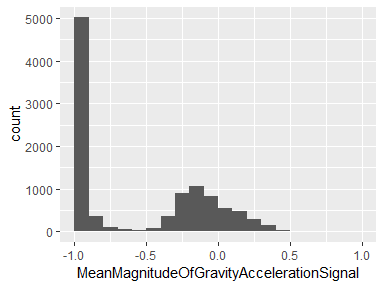
## MeanMagnitudeOfBodyAccelerationSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10296 |
| Median | -0.87 |
| 1st and 3rd quartiles | -0.98; -0.12 |
| Min. and max. | -1; 1 |



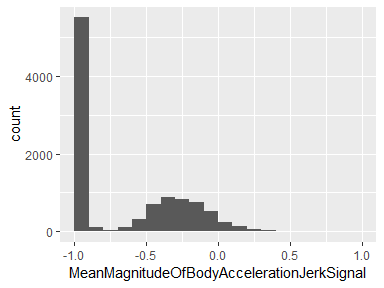
## MeanMagnitudeOfGravityAccelerationSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10296 |
| Median | -0.87 |
| 1st and 3rd quartiles | -0.98; -0.12 |
| Min. and max. | -1; 1 |



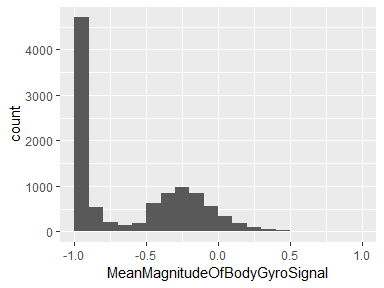
## MeanMagnitudeOfBodyAccelerationJerkSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10292 |
| Median | -0.95 |
| 1st and 3rd quartiles | -0.99; -0.3 |
| Min. and max. | -1; 1 |



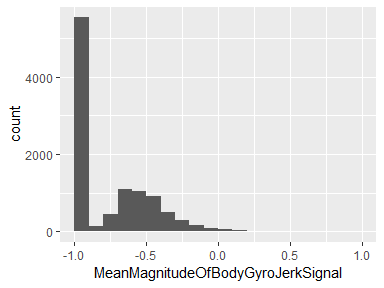
## MeanMagnitudeOfBodyGyroSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10298 |
| Median | -0.82 |
| 1st and 3rd quartiles | -0.98; -0.25 |
| Min. and max. | -1; 1 |



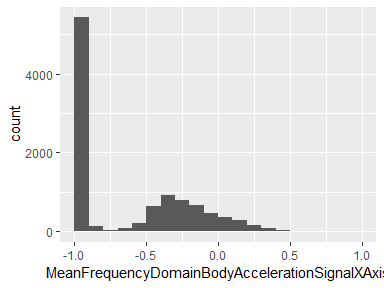
## MeanMagnitudeOfBodyGyroJerkSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10293 |
| Median | -0.96 |
| 1st and 3rd quartiles | -0.99; -0.55 |
| Min. and max. | -1; 1 |



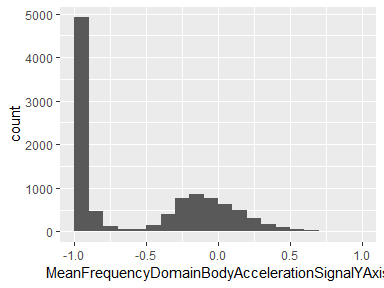
## MeanFrequencyDomainBodyAccelerationSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10295 |
| Median | -0.95 |
| 1st and 3rd quartiles | -0.99; -0.26 |
| Min. and max. | -1; 1 |



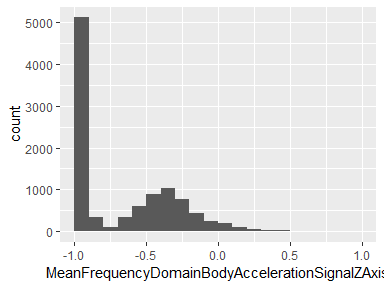
## MeanFrequencyDomainBodyAccelerationSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10292 |
| Median | -0.86 |
| 1st and 3rd quartiles | -0.98; -0.1 |
| Min. and max. | -1; 1 |



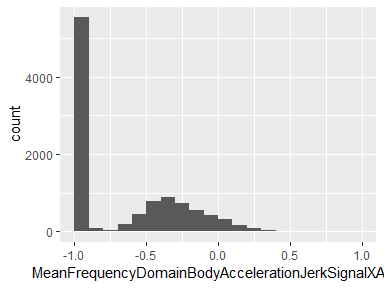
## MeanFrequencyDomainBodyAccelerationSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10295 |
| Median | -0.9 |
| 1st and 3rd quartiles | -0.98; -0.37 |
| Min. and max. | -1; 1 |



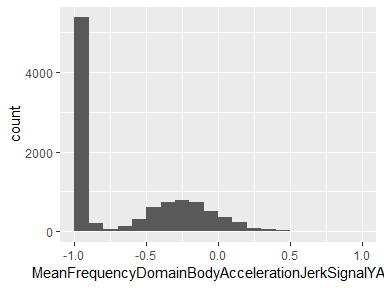
## MeanFrequencyDomainBodyAccelerationJerkSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10293 |
| Median | -0.95 |
| 1st and 3rd quartiles | -0.99; -0.33 |
| Min. and max. | -1; 1 |



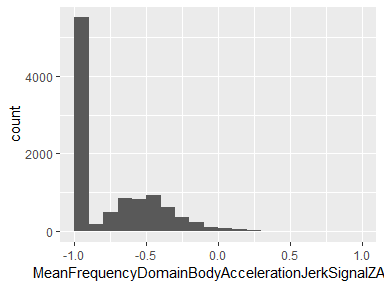
## MeanFrequencyDomainBodyAccelerationJerkSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10296 |
| Median | -0.93 |
| 1st and 3rd quartiles | -0.98; -0.26 |
| Min. and max. | -1; 1 |



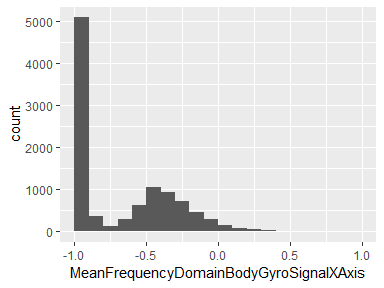
## MeanFrequencyDomainBodyAccelerationJerkSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10294 |
| Median | -0.95 |
| 1st and 3rd quartiles | -0.99; -0.51 |
| Min. and max. | -1; 1 |



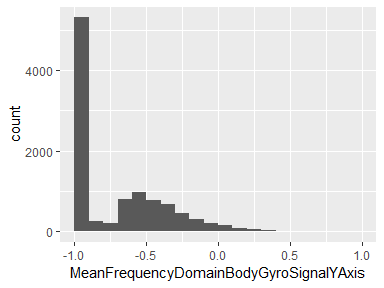
## MeanFrequencyDomainBodyGyroSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10297 |
| Median | -0.89 |
| 1st and 3rd quartiles | -0.99; -0.38 |
| Min. and max. | -1; 1 |



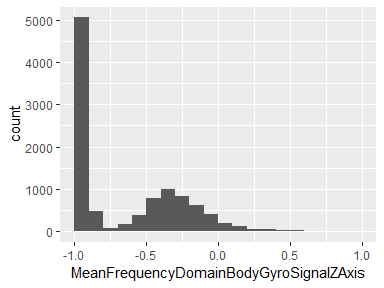
## MeanFrequencyDomainBodyGyroSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10296 |
| Median | -0.92 |
| 1st and 3rd quartiles | -0.98; -0.47 |
| Min. and max. | -1; 1 |



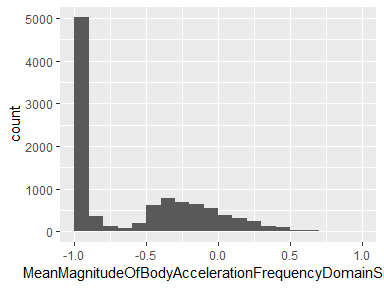
## MeanFrequencyDomainBodyGyroSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10297 |
| Median | -0.89 |
| 1st and 3rd quartiles | -0.99; -0.32 |
| Min. and max. | -1; 1 |



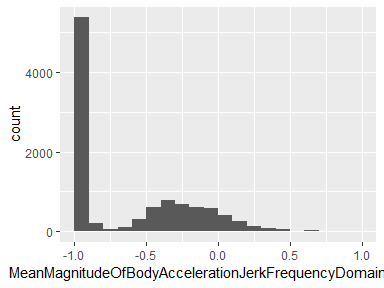
## MeanMagnitudeOfBodyAccelerationFrequencyDomainSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10296 |
| Median | -0.88 |
| 1st and 3rd quartiles | -0.98; -0.22 |
| Min. and max. | -1; 1 |



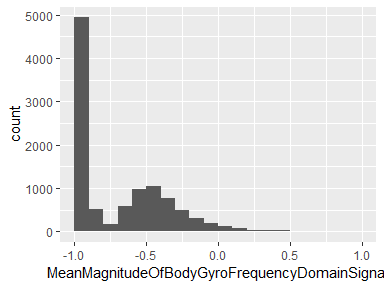
## MeanMagnitudeOfBodyAccelerationJerkFrequencyDomainSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10290 |
| Median | -0.93 |
| 1st and 3rd quartiles | -0.99; -0.26 |
| Min. and max. | -1; 1 |



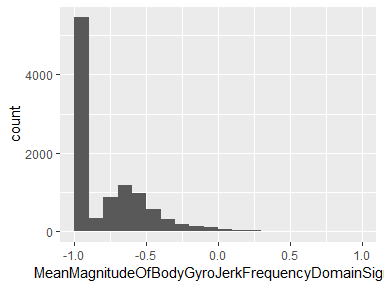
## MeanMagnitudeOfBodyGyroFrequencyDomainSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10297 |
| Median | -0.88 |
| 1st and 3rd quartiles | -0.98; -0.45 |
| Min. and max. | -1; 1 |



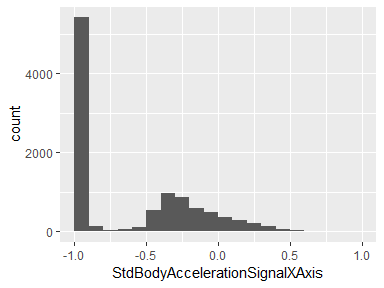
## MeanMagnitudeOfBodyGyroJerkFrequencyDomainSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10293 |
| Median | -0.95 |
| 1st and 3rd quartiles | -0.99; -0.61 |
| Min. and max. | -1; 1 |



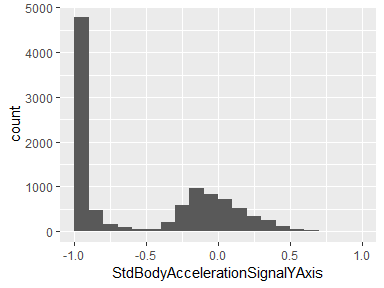
## StdBodyAccelerationSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10295 |
| Median | -0.94 |
| 1st and 3rd quartiles | -0.99; -0.25 |
| Min. and max. | -1; 1 |



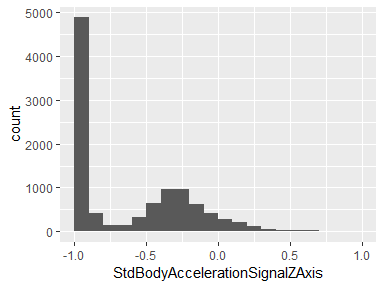
## StdBodyAccelerationSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10297 |
| Median | -0.84 |
| 1st and 3rd quartiles | -0.98; -0.06 |
| Min. and max. | -1; 1 |



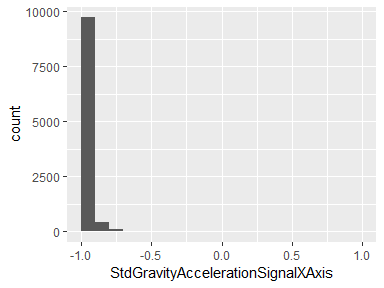
## StdBodyAccelerationSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10297 |
| Median | -0.85 |
| 1st and 3rd quartiles | -0.98; -0.28 |
| Min. and max. | -1; 1 |



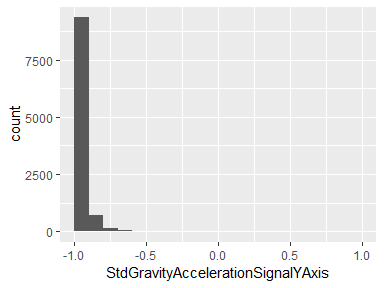
## StdGravityAccelerationSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10288 |
| Median | -0.98 |
| 1st and 3rd quartiles | -0.99; -0.96 |
| Min. and max. | -1; 1 |



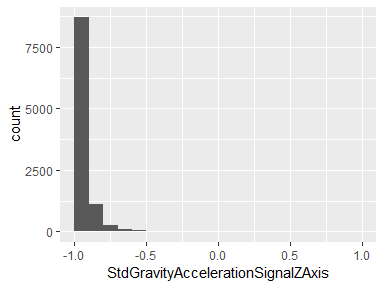
## StdGravityAccelerationSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10293 |
| Median | -0.98 |
| 1st and 3rd quartiles | -0.99; -0.95 |
| Min. and max. | -1; 1 |



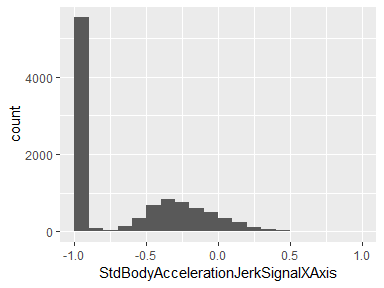
## StdGravityAccelerationSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10296 |
| Median | -0.97 |
| 1st and 3rd quartiles | -0.99; -0.93 |
| Min. and max. | -1; 1 |



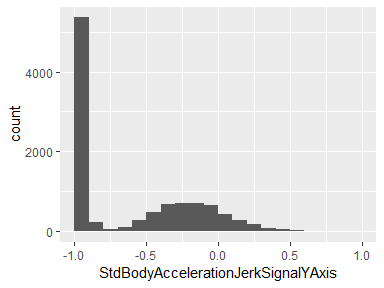
## StdBodyAccelerationJerkSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10290 |
| Median | -0.95 |
| 1st and 3rd quartiles | -0.99; -0.29 |
| Min. and max. | -1; 1 |



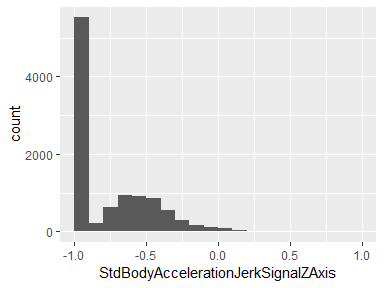
## StdBodyAccelerationJerkSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10296 |
| Median | -0.93 |
| 1st and 3rd quartiles | -0.99; -0.22 |
| Min. and max. | -1; 1 |



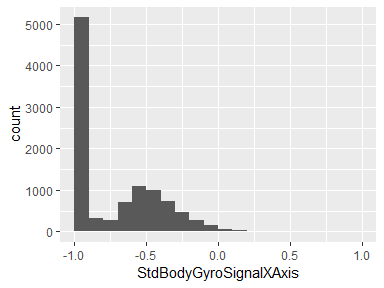
## StdBodyAccelerationJerkSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10293 |
| Median | -0.95 |
| 1st and 3rd quartiles | -0.99; -0.55 |
| Min. and max. | -1; 1 |



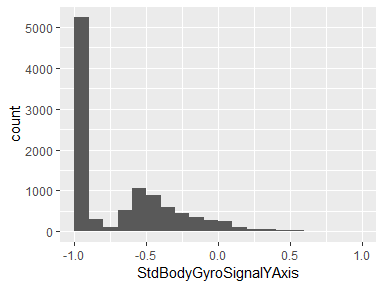
## StdBodyGyroSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10292 |
| Median | -0.9 |
| 1st and 3rd quartiles | -0.99; -0.48 |
| Min. and max. | -1; 1 |



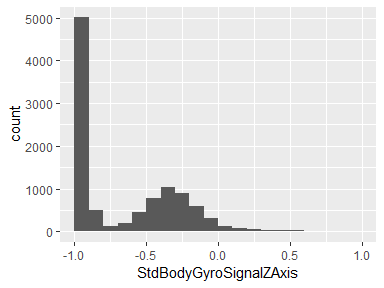
## StdBodyGyroSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10296 |
| Median | -0.91 |
| 1st and 3rd quartiles | -0.98; -0.45 |
| Min. and max. | -1; 1 |



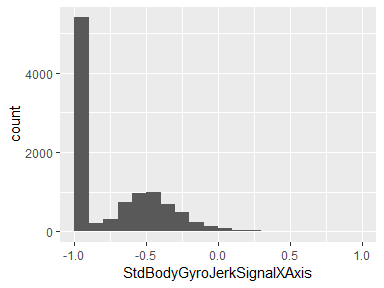
## StdBodyGyroSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10296 |
| Median | -0.88 |
| 1st and 3rd quartiles | -0.99; -0.34 |
| Min. and max. | -1; 1 |



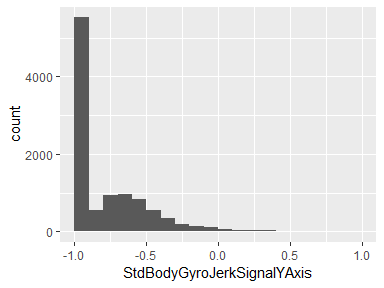
## StdBodyGyroJerkSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10292 |
| Median | -0.93 |
| 1st and 3rd quartiles | -0.99; -0.49 |
| Min. and max. | -1; 1 |



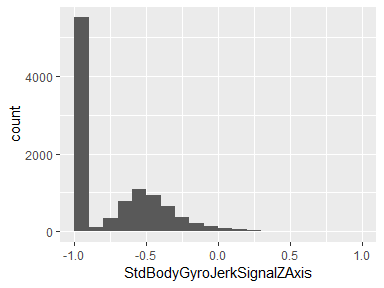
## StdBodyGyroJerkSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10295 |
| Median | -0.95 |
| 1st and 3rd quartiles | -0.99; -0.63 |
| Min. and max. | -1; 1 |



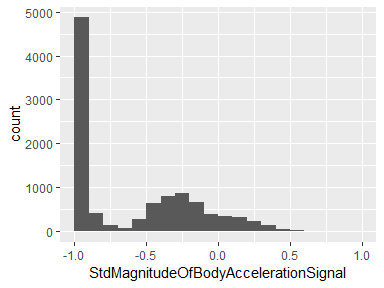
## StdBodyGyroJerkSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10291 |
| Median | -0.95 |
| 1st and 3rd quartiles | -0.99; -0.51 |
| Min. and max. | -1; 1 |



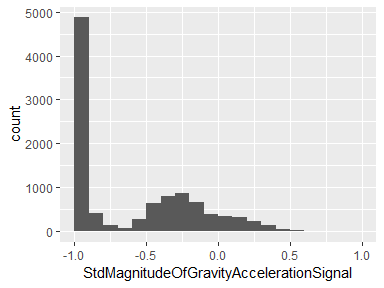
## StdMagnitudeOfBodyAccelerationSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10294 |
| Median | -0.84 |
| 1st and 3rd quartiles | -0.98; -0.24 |
| Min. and max. | -1; 1 |



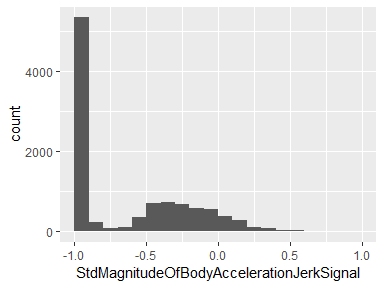
## StdMagnitudeOfGravityAccelerationSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10294 |
| Median | -0.84 |
| 1st and 3rd quartiles | -0.98; -0.24 |
| Min. and max. | -1; 1 |



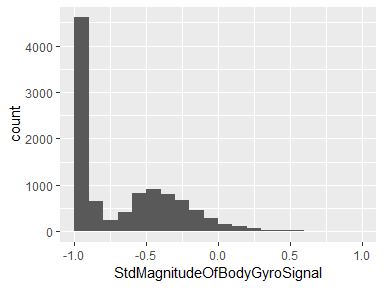
## StdMagnitudeOfBodyAccelerationJerkSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10294 |
| Median | -0.93 |
| 1st and 3rd quartiles | -0.99; -0.27 |
| Min. and max. | -1; 1 |



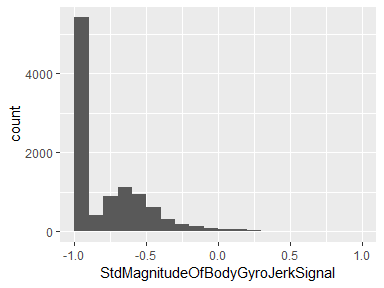
## StdMagnitudeOfBodyGyroSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10298 |
| Median | -0.83 |
| 1st and 3rd quartiles | -0.98; -0.39 |
| Min. and max. | -1; 1 |



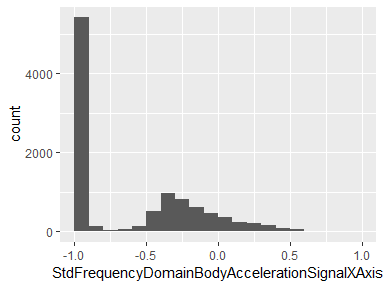
## StdMagnitudeOfBodyGyroJerkSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10297 |
| Median | -0.94 |
| 1st and 3rd quartiles | -0.99; -0.61 |
| Min. and max. | -1; 1 |



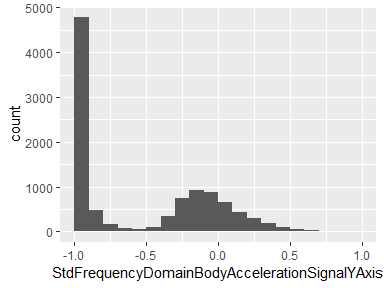
## StdFrequencyDomainBodyAccelerationSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10294 |
| Median | -0.94 |
| 1st and 3rd quartiles | -0.99; -0.25 |
| Min. and max. | -1; 1 |



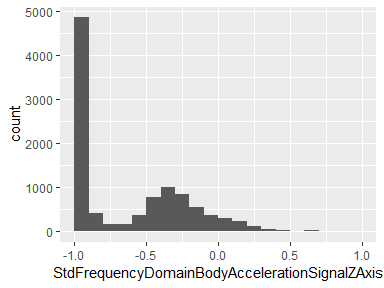
## StdFrequencyDomainBodyAccelerationSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10297 |
| Median | -0.83 |
| 1st and 3rd quartiles | -0.98; -0.09 |
| Min. and max. | -1; 1 |



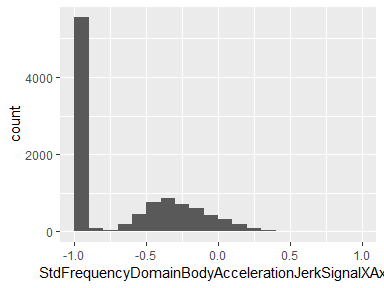
## StdFrequencyDomainBodyAccelerationSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10296 |
| Median | -0.84 |
| 1st and 3rd quartiles | -0.98; -0.3 |
| Min. and max. | -1; 1 |



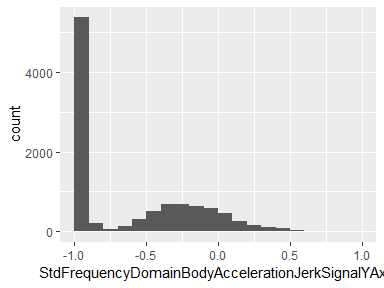
## StdFrequencyDomainBodyAccelerationJerkSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10291 |
| Median | -0.96 |
| 1st and 3rd quartiles | -0.99; -0.32 |
| Min. and max. | -1; 1 |



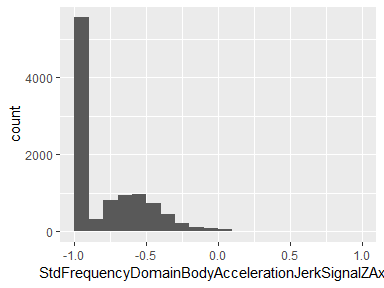
## StdFrequencyDomainBodyAccelerationJerkSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10294 |
| Median | -0.93 |
| 1st and 3rd quartiles | -0.99; -0.24 |
| Min. and max. | -1; 1 |



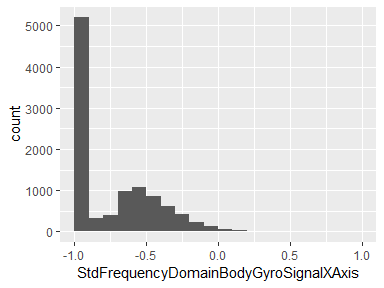
## StdFrequencyDomainBodyAccelerationJerkSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10290 |
| Median | -0.96 |
| 1st and 3rd quartiles | -0.99; -0.59 |
| Min. and max. | -1; 1 |



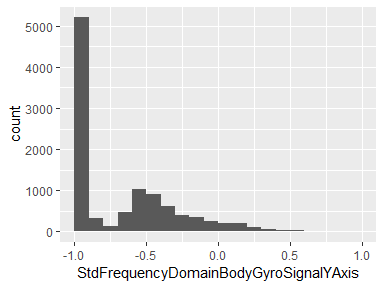
## StdFrequencyDomainBodyGyroSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10297 |
| Median | -0.91 |
| 1st and 3rd quartiles | -0.99; -0.52 |
| Min. and max. | -1; 1 |



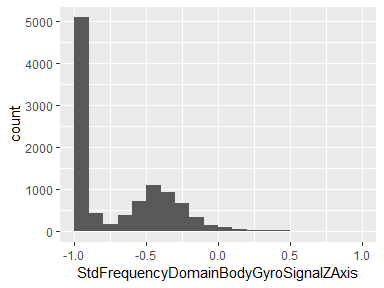
## StdFrequencyDomainBodyGyroSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10293 |
| Median | -0.91 |
| 1st and 3rd quartiles | -0.98; -0.44 |
| Min. and max. | -1; 1 |



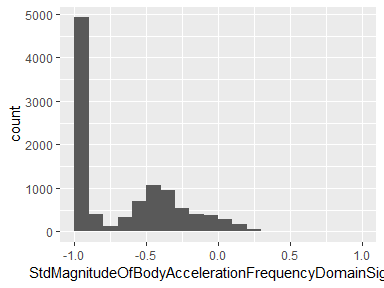
## StdFrequencyDomainBodyGyroSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10295 |
| Median | -0.89 |
| 1st and 3rd quartiles | -0.99; -0.42 |
| Min. and max. | -1; 1 |



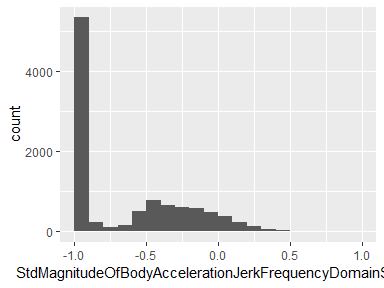
## StdMagnitudeOfBodyAccelerationFrequencyDomainSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10298 |
| Median | -0.85 |
| 1st and 3rd quartiles | -0.98; -0.38 |
| Min. and max. | -1; 1 |



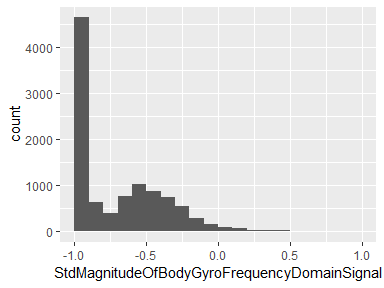
## StdMagnitudeOfBodyAccelerationJerkFrequencyDomainSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10296 |
| Median | -0.93 |
| 1st and 3rd quartiles | -0.99; -0.31 |
| Min. and max. | -1; 1 |



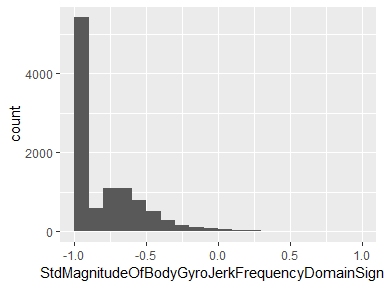
## StdMagnitudeOfBodyGyroFrequencyDomainSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10296 |
| Median | -0.83 |
| 1st and 3rd quartiles | -0.98; -0.47 |
| Min. and max. | -1; 1 |



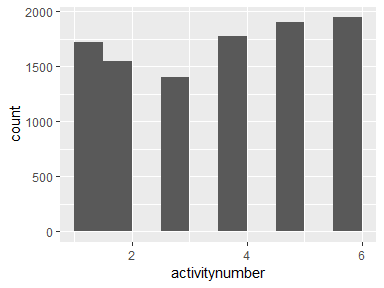
## StdMagnitudeOfBodyGyroJerkFrequencyDomainSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10292 |
| Median | -0.94 |
| 1st and 3rd quartiles | -0.99; -0.64 |
| Min. and max. | -1; 1 |



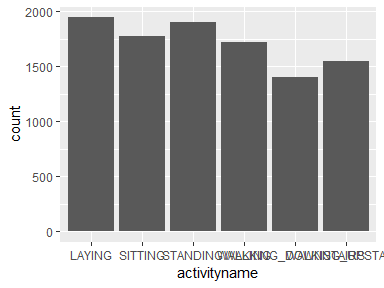
## activitynumber

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | integer |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 6 |
| Median | 4 |
| 1st and 3rd quartiles | 2; 5 |
| Min. and max. | 1; 6 |



## activityname

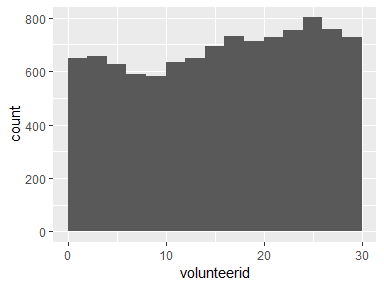
|  |  |
| --- | --- |
| Feature | Result |
| Variable type | factor |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 6 |
| Mode | “LAYING” |
| Reference category | LAYING |



* Observed factor levels: "LAYING", "SITTING", "STANDING", "WALKING", "WALKING\_DOWNSTAIRS", "WALKING\_UPSTAIRS".

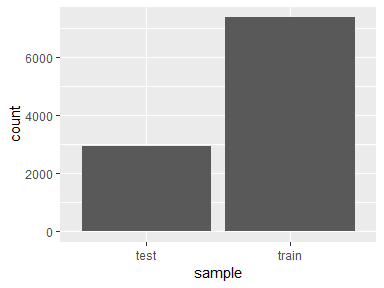
## volunteerid

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | integer |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 30 |
| Median | 17 |
| 1st and 3rd quartiles | 9; 24 |
| Min. and max. | 1; 30 |



## sample

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | character |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 2 |
| Mode | “train” |



* Observed factor levels: "test", "train".

Report generation information:

* Created by AJ (username: ajohns34).
* Report creation time: Wed May 22 2019 10:31:25
* Report was run from directory: C:/Users/ajohns34/Box/Data Science Specialization/Assignment 5
* dataMaid v1.2.0 [Pkg: 2018-10-03 from CRAN (R 3.5.3)]
* R version 3.5.3 (2019-03-11).
* Platform: x86\_64-w64-mingw32/x64 (64-bit)(Windows >= 8 x64 (build 9200)).
* Function call: makeDataReport(data = combined\_tidy, mode = c("summarize", "visualize", "check"), smartNum = FALSE, file = "codebook\_combined\_tidy.Rmd", checks = list(character = "showAllFactorLevels", factor = "showAllFactorLevels", labelled = "showAllFactorLevels", haven\_labelled = "showAllFactorLevels", numeric = NULL, integer = NULL, logical = NULL, Date = NULL), listChecks = FALSE, maxProbVals = Inf, codebook = TRUE, reportTitle = "Codebook for combined\_tidy")

# Codebook for average\_tidy

Autogenerated data summary from dataMaid

2019-05-22 10:31:38

# Data report overview

The dataset examined has the following dimensions:

|  |  |
| --- | --- |
| Feature | Result |
| Number of observations | 180 |
| Number of variables | 68 |

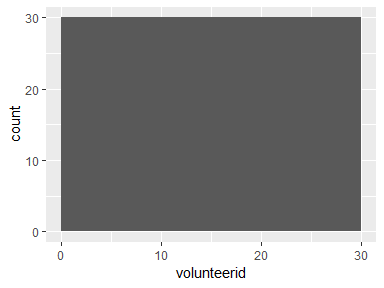
# Codebook summary table

|  |  |  |  |
| --- | --- | --- | --- |
| Variable | Class | # unique values | % Missing |
| [**volunteerid**](#volunteerid) | integer | 30 | 0.00 % |
| [**activityname**](#activityname) | factor | 6 | 0.00 % |
| [**averageofMeanBodyAccelerationSignalXAxis**](#averageofmeanbodyaccelerationsignalxaxis) | numeric | 180 | 0.00 % |
| [**averageofMeanBodyAccelerationSignalYAxis**](#averageofmeanbodyaccelerationsignalyaxis) | numeric | 180 | 0.00 % |
| [**averageofMeanBodyAccelerationSignalZAxis**](#averageofmeanbodyaccelerationsignalzaxis) | numeric | 180 | 0.00 % |
| [**averageofMeanGravityAccelerationSignalXAxis**](#averageofmeangravityaccelerationsignalxaxis) | numeric | 180 | 0.00 % |
| [**averageofMeanGravityAccelerationSignalYAxis**](#averageofmeangravityaccelerationsignalyaxis) | numeric | 180 | 0.00 % |
| [**averageofMeanGravityAccelerationSignalZAxis**](#averageofmeangravityaccelerationsignalzaxis) | numeric | 180 | 0.00 % |
| [**averageofMeanBodyAccelerationJerkSignalXAxis**](#averageofmeanbodyaccelerationjerksignalxaxis) | numeric | 180 | 0.00 % |
| [**averageofMeanBodyAccelerationJerkSignalYAxis**](#averageofmeanbodyaccelerationjerksignalyaxis) | numeric | 180 | 0.00 % |
| [**averageofMeanBodyAccelerationJerkSignalZAxis**](#averageofmeanbodyaccelerationjerksignalzaxis) | numeric | 180 | 0.00 % |
| [**averageofMeanBodyGyroSignalXAxis**](#averageofmeanbodygyrosignalxaxis) | numeric | 180 | 0.00 % |
| [**averageofMeanBodyGyroSignalYAxis**](#averageofmeanbodygyrosignalyaxis) | numeric | 180 | 0.00 % |
| [**averageofMeanBodyGyroSignalZAxis**](#averageofmeanbodygyrosignalzaxis) | numeric | 180 | 0.00 % |
| [**averageofMeanBodyGyroJerkSignalXAxis**](#averageofmeanbodygyrojerksignalxaxis) | numeric | 180 | 0.00 % |
| [**averageofMeanBodyGyroJerkSignalYAxis**](#averageofmeanbodygyrojerksignalyaxis) | numeric | 180 | 0.00 % |
| [**averageofMeanBodyGyroJerkSignalZAxis**](#averageofmeanbodygyrojerksignalzaxis) | numeric | 180 | 0.00 % |
| [**averageofMeanMagnitudeOfBodyAccelerationSignal**](#averageofmeanmagnitudeofbodyaccelerationsignal) | numeric | 180 | 0.00 % |
| [**averageofMeanMagnitudeOfGravityAccelerationSignal**](#averageofmeanmagnitudeofgravityaccelerationsignal) | numeric | 180 | 0.00 % |
| [**averageofMeanMagnitudeOfBodyAccelerationJerkSignal**](#averageofmeanmagnitudeofbodyaccelerationjerksignal) | numeric | 180 | 0.00 % |
| [**averageofMeanMagnitudeOfBodyGyroSignal**](#averageofmeanmagnitudeofbodygyrosignal) | numeric | 180 | 0.00 % |
| [**averageofMeanMagnitudeOfBodyGyroJerkSignal**](#averageofmeanmagnitudeofbodygyrojerksignal) | numeric | 180 | 0.00 % |
| [**averageofMeanFrequencyDomainBodyAccelerationSignalXAxis**](#averageofmeanfrequencydomainbodyaccelerationsignalxaxis) | numeric | 180 | 0.00 % |
| [**averageofMeanFrequencyDomainBodyAccelerationSignalYAxis**](#averageofmeanfrequencydomainbodyaccelerationsignalyaxis) | numeric | 180 | 0.00 % |
| [**averageofMeanFrequencyDomainBodyAccelerationSignalZAxis**](#averageofmeanfrequencydomainbodyaccelerationsignalzaxis) | numeric | 180 | 0.00 % |
| [**averageofMeanFrequencyDomainBodyAccelerationJerkSignalXAxis**](#averageofmeanfrequencydomainbodyaccelerationjerksignalxaxis) | numeric | 180 | 0.00 % |
| [**averageofMeanFrequencyDomainBodyAccelerationJerkSignalYAxis**](#averageofmeanfrequencydomainbodyaccelerationjerksignalyaxis) | numeric | 180 | 0.00 % |
| [**averageofMeanFrequencyDomainBodyAccelerationJerkSignalZAxis**](#averageofmeanfrequencydomainbodyaccelerationjerksignalzaxis) | numeric | 180 | 0.00 % |
| [**averageofMeanFrequencyDomainBodyGyroSignalXAxis**](#averageofmeanfrequencydomainbodygyrosignalxaxis) | numeric | 180 | 0.00 % |
| [**averageofMeanFrequencyDomainBodyGyroSignalYAxis**](#averageofmeanfrequencydomainbodygyrosignalyaxis) | numeric | 180 | 0.00 % |
| [**averageofMeanFrequencyDomainBodyGyroSignalZAxis**](#averageofmeanfrequencydomainbodygyrosignalzaxis) | numeric | 180 | 0.00 % |
| [**averageofMeanMagnitudeOfBodyAccelerationFrequencyDomainSignal**](#averageofmeanmagnitudeofbodyaccelerationfrequencydomainsignal) | numeric | 180 | 0.00 % |
| [**averageofMeanMagnitudeOfBodyAccelerationJerkFrequencyDomainSignal**](#averageofmeanmagnitudeofbodyaccelerationjerkfrequencydomainsignal) | numeric | 180 | 0.00 % |
| [**averageofMeanMagnitudeOfBodyGyroFrequencyDomainSignal**](#averageofmeanmagnitudeofbodygyrofrequencydomainsignal) | numeric | 180 | 0.00 % |
| [**averageofMeanMagnitudeOfBodyGyroJerkFrequencyDomainSignal**](#averageofmeanmagnitudeofbodygyrojerkfrequencydomainsignal) | numeric | 180 | 0.00 % |
| [**averageofStdBodyAccelerationSignalXAxis**](#averageofstdbodyaccelerationsignalxaxis) | numeric | 180 | 0.00 % |
| [**averageofStdBodyAccelerationSignalYAxis**](#averageofstdbodyaccelerationsignalyaxis) | numeric | 180 | 0.00 % |
| [**averageofStdBodyAccelerationSignalZAxis**](#averageofstdbodyaccelerationsignalzaxis) | numeric | 180 | 0.00 % |
| [**averageofStdGravityAccelerationSignalXAxis**](#averageofstdgravityaccelerationsignalxaxis) | numeric | 180 | 0.00 % |
| [**averageofStdGravityAccelerationSignalYAxis**](#averageofstdgravityaccelerationsignalyaxis) | numeric | 180 | 0.00 % |
| [**averageofStdGravityAccelerationSignalZAxis**](#averageofstdgravityaccelerationsignalzaxis) | numeric | 180 | 0.00 % |
| [**averageofStdBodyAccelerationJerkSignalXAxis**](#averageofstdbodyaccelerationjerksignalxaxis) | numeric | 180 | 0.00 % |
| [**averageofStdBodyAccelerationJerkSignalYAxis**](#averageofstdbodyaccelerationjerksignalyaxis) | numeric | 180 | 0.00 % |
| [**averageofStdBodyAccelerationJerkSignalZAxis**](#averageofstdbodyaccelerationjerksignalzaxis) | numeric | 180 | 0.00 % |
| [**averageofStdBodyGyroSignalXAxis**](#averageofstdbodygyrosignalxaxis) | numeric | 180 | 0.00 % |
| [**averageofStdBodyGyroSignalYAxis**](#averageofstdbodygyrosignalyaxis) | numeric | 180 | 0.00 % |
| [**averageofStdBodyGyroSignalZAxis**](#averageofstdbodygyrosignalzaxis) | numeric | 180 | 0.00 % |
| [**averageofStdBodyGyroJerkSignalXAxis**](#averageofstdbodygyrojerksignalxaxis) | numeric | 180 | 0.00 % |
| [**averageofStdBodyGyroJerkSignalYAxis**](#averageofstdbodygyrojerksignalyaxis) | numeric | 180 | 0.00 % |
| [**averageofStdBodyGyroJerkSignalZAxis**](#averageofstdbodygyrojerksignalzaxis) | numeric | 180 | 0.00 % |
| [**averageofStdMagnitudeOfBodyAccelerationSignal**](#averageofstdmagnitudeofbodyaccelerationsignal) | numeric | 180 | 0.00 % |
| [**averageofStdMagnitudeOfGravityAccelerationSignal**](#averageofstdmagnitudeofgravityaccelerationsignal) | numeric | 180 | 0.00 % |
| [**averageofStdMagnitudeOfBodyAccelerationJerkSignal**](#averageofstdmagnitudeofbodyaccelerationjerksignal) | numeric | 180 | 0.00 % |
| [**averageofStdMagnitudeOfBodyGyroSignal**](#averageofstdmagnitudeofbodygyrosignal) | numeric | 180 | 0.00 % |
| [**averageofStdMagnitudeOfBodyGyroJerkSignal**](#averageofstdmagnitudeofbodygyrojerksignal) | numeric | 180 | 0.00 % |
| [**averageofStdFrequencyDomainBodyAccelerationSignalXAxis**](#averageofstdfrequencydomainbodyaccelerationsignalxaxis) | numeric | 180 | 0.00 % |
| [**averageofStdFrequencyDomainBodyAccelerationSignalYAxis**](#averageofstdfrequencydomainbodyaccelerationsignalyaxis) | numeric | 180 | 0.00 % |
| [**averageofStdFrequencyDomainBodyAccelerationSignalZAxis**](#averageofstdfrequencydomainbodyaccelerationsignalzaxis) | numeric | 180 | 0.00 % |
| [**averageofStdFrequencyDomainBodyAccelerationJerkSignalXAxis**](#averageofstdfrequencydomainbodyaccelerationjerksignalxaxis) | numeric | 180 | 0.00 % |
| [**averageofStdFrequencyDomainBodyAccelerationJerkSignalYAxis**](#averageofstdfrequencydomainbodyaccelerationjerksignalyaxis) | numeric | 180 | 0.00 % |
| [**averageofStdFrequencyDomainBodyAccelerationJerkSignalZAxis**](#averageofstdfrequencydomainbodyaccelerationjerksignalzaxis) | numeric | 180 | 0.00 % |
| [**averageofStdFrequencyDomainBodyGyroSignalXAxis**](#averageofstdfrequencydomainbodygyrosignalxaxis) | numeric | 180 | 0.00 % |
| [**averageofStdFrequencyDomainBodyGyroSignalYAxis**](#averageofstdfrequencydomainbodygyrosignalyaxis) | numeric | 180 | 0.00 % |
| [**averageofStdFrequencyDomainBodyGyroSignalZAxis**](#averageofstdfrequencydomainbodygyrosignalzaxis) | numeric | 180 | 0.00 % |
| [**averageofStdMagnitudeOfBodyAccelerationFrequencyDomainSignal**](#averageofstdmagnitudeofbodyaccelerationfrequencydomainsignal) | numeric | 180 | 0.00 % |
| [**averageofStdMagnitudeOfBodyAccelerationJerkFrequencyDomainSignal**](#averageofstdmagnitudeofbodyaccelerationjerkfrequencydomainsignal) | numeric | 180 | 0.00 % |
| [**averageofStdMagnitudeOfBodyGyroFrequencyDomainSignal**](#averageofstdmagnitudeofbodygyrofrequencydomainsignal) | numeric | 180 | 0.00 % |
| [**averageofStdMagnitudeOfBodyGyroJerkFrequencyDomainSignal**](#averageofstdmagnitudeofbodygyrojerkfrequencydomainsignal) | numeric | 180 | 0.00 % |

# Variable list

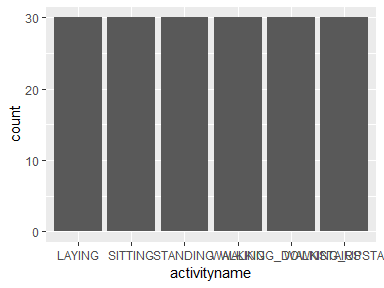
## volunteerid

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | integer |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 30 |
| Median | 15.5 |
| 1st and 3rd quartiles | 8; 23 |
| Min. and max. | 1; 30 |



## activityname

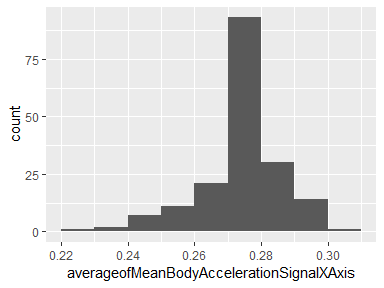
|  |  |
| --- | --- |
| Feature | Result |
| Variable type | factor |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 6 |
| Mode | “LAYING” |
| Reference category | LAYING |



* Observed factor levels: "LAYING", "SITTING", "STANDING", "WALKING", "WALKING\_DOWNSTAIRS", "WALKING\_UPSTAIRS".

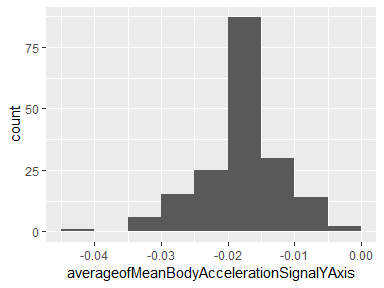
## averageofMeanBodyAccelerationSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | 0.28 |
| 1st and 3rd quartiles | 0.27; 0.28 |
| Min. and max. | 0.22; 0.3 |



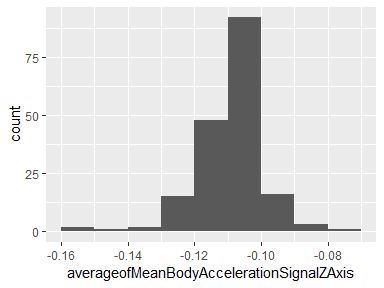
## averageofMeanBodyAccelerationSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.02 |
| 1st and 3rd quartiles | -0.02; -0.01 |
| Min. and max. | -0.04; 0 |



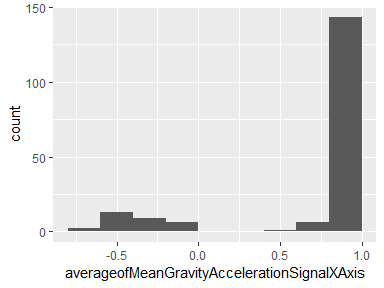
## averageofMeanBodyAccelerationSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.11 |
| 1st and 3rd quartiles | -0.11; -0.1 |
| Min. and max. | -0.15; -0.08 |



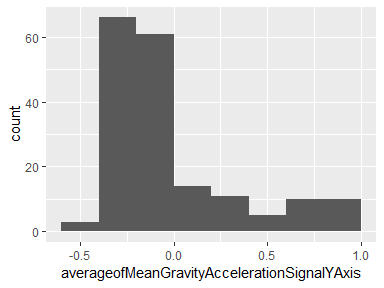
## averageofMeanGravityAccelerationSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | 0.92 |
| 1st and 3rd quartiles | 0.84; 0.94 |
| Min. and max. | -0.68; 0.97 |



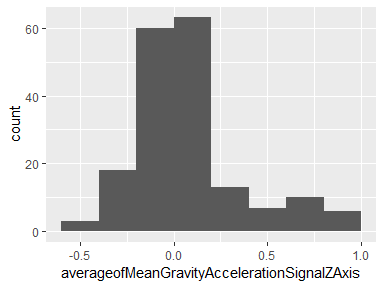
## averageofMeanGravityAccelerationSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.13 |
| 1st and 3rd quartiles | -0.23; 0.09 |
| Min. and max. | -0.48; 0.96 |



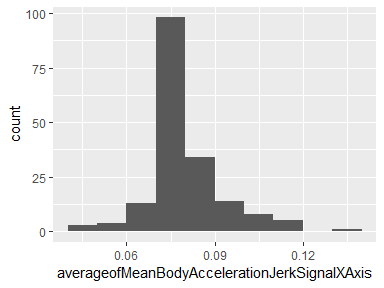
## averageofMeanGravityAccelerationSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | 0.02 |
| 1st and 3rd quartiles | -0.12; 0.15 |
| Min. and max. | -0.5; 0.96 |



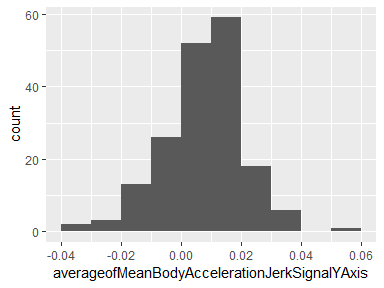
## averageofMeanBodyAccelerationJerkSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | 0.08 |
| 1st and 3rd quartiles | 0.07; 0.08 |
| Min. and max. | 0.04; 0.13 |



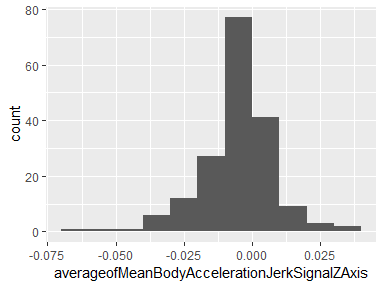
## averageofMeanBodyAccelerationJerkSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | 0.01 |
| 1st and 3rd quartiles | 0; 0.01 |
| Min. and max. | -0.04; 0.06 |



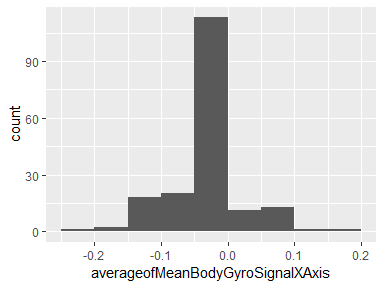
## averageofMeanBodyAccelerationJerkSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | 0 |
| 1st and 3rd quartiles | -0.01; 0 |
| Min. and max. | -0.07; 0.04 |



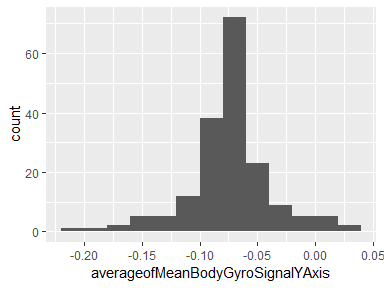
## averageofMeanBodyGyroSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.03 |
| 1st and 3rd quartiles | -0.05; -0.02 |
| Min. and max. | -0.21; 0.19 |



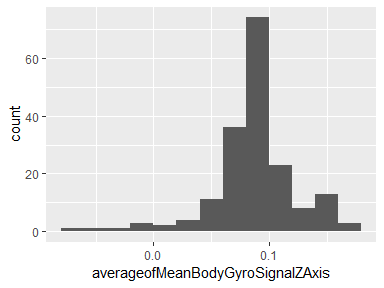
## averageofMeanBodyGyroSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.07 |
| 1st and 3rd quartiles | -0.09; -0.06 |
| Min. and max. | -0.2; 0.03 |



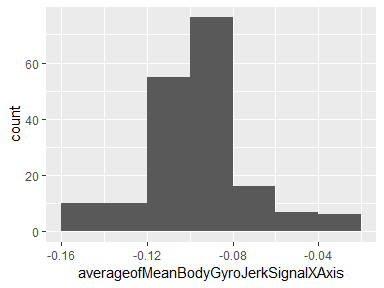
## averageofMeanBodyGyroSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | 0.09 |
| 1st and 3rd quartiles | 0.07; 0.1 |
| Min. and max. | -0.07; 0.18 |



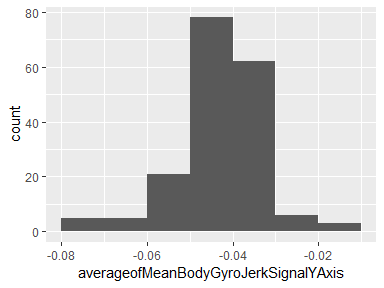
## averageofMeanBodyGyroJerkSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.1 |
| 1st and 3rd quartiles | -0.1; -0.09 |
| Min. and max. | -0.16; -0.02 |



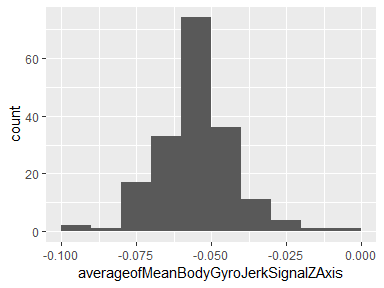
## averageofMeanBodyGyroJerkSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.04 |
| 1st and 3rd quartiles | -0.05; -0.04 |
| Min. and max. | -0.08; -0.01 |



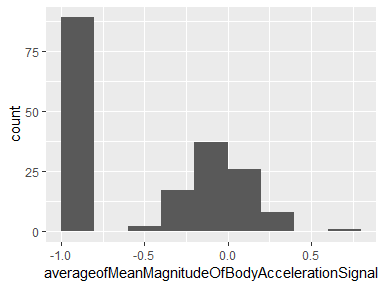
## averageofMeanBodyGyroJerkSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.05 |
| 1st and 3rd quartiles | -0.06; -0.05 |
| Min. and max. | -0.09; -0.01 |



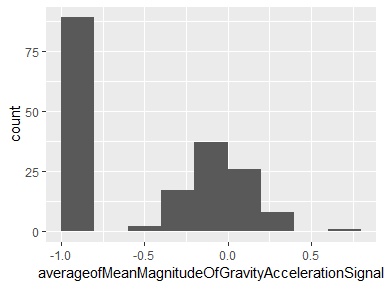
## averageofMeanMagnitudeOfBodyAccelerationSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.48 |
| 1st and 3rd quartiles | -0.96; -0.09 |
| Min. and max. | -0.99; 0.64 |



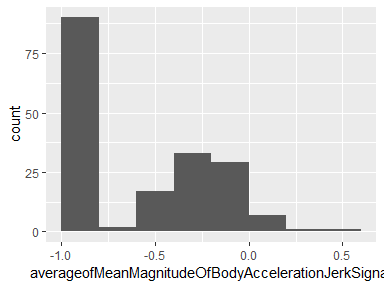
## averageofMeanMagnitudeOfGravityAccelerationSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.48 |
| 1st and 3rd quartiles | -0.96; -0.09 |
| Min. and max. | -0.99; 0.64 |



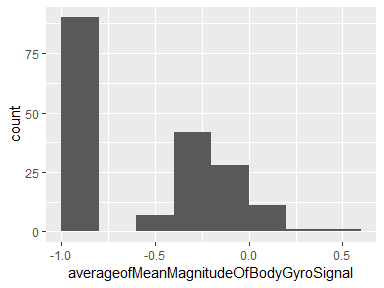
## averageofMeanMagnitudeOfBodyAccelerationJerkSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.82 |
| 1st and 3rd quartiles | -0.98; -0.25 |
| Min. and max. | -0.99; 0.43 |



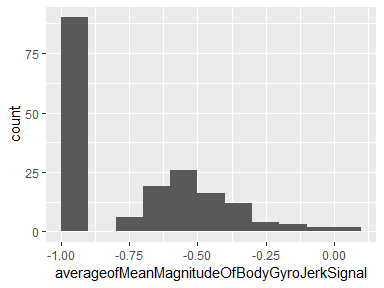
## averageofMeanMagnitudeOfBodyGyroSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.66 |
| 1st and 3rd quartiles | -0.95; -0.22 |
| Min. and max. | -0.98; 0.42 |



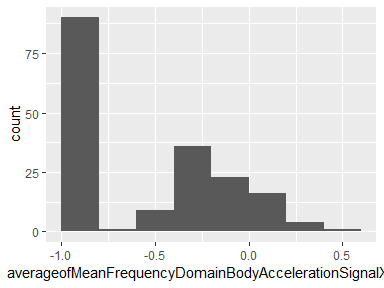
## averageofMeanMagnitudeOfBodyGyroJerkSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.86 |
| 1st and 3rd quartiles | -0.99; -0.51 |
| Min. and max. | -1; 0.09 |



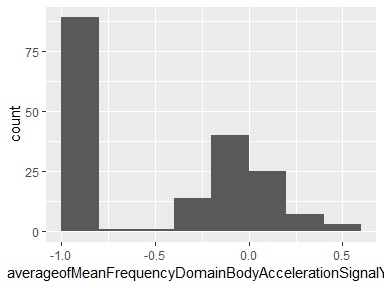
## averageofMeanFrequencyDomainBodyAccelerationSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.77 |
| 1st and 3rd quartiles | -0.98; -0.22 |
| Min. and max. | -1; 0.54 |



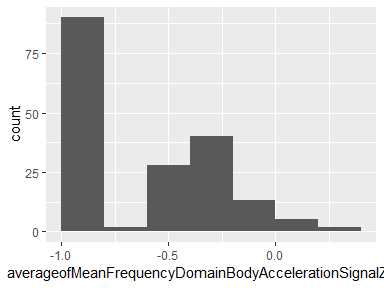
## averageofMeanFrequencyDomainBodyAccelerationSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.59 |
| 1st and 3rd quartiles | -0.95; -0.06 |
| Min. and max. | -0.99; 0.52 |



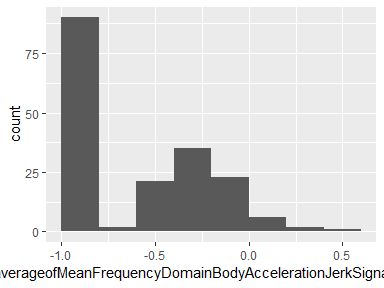
## averageofMeanFrequencyDomainBodyAccelerationSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.72 |
| 1st and 3rd quartiles | -0.96; -0.32 |
| Min. and max. | -0.99; 0.28 |



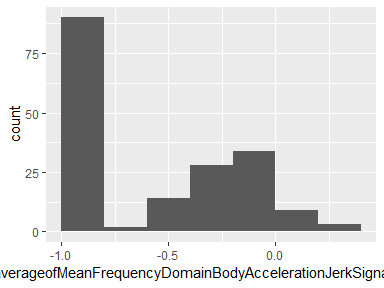
## averageofMeanFrequencyDomainBodyAccelerationJerkSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.81 |
| 1st and 3rd quartiles | -0.98; -0.28 |
| Min. and max. | -0.99; 0.47 |



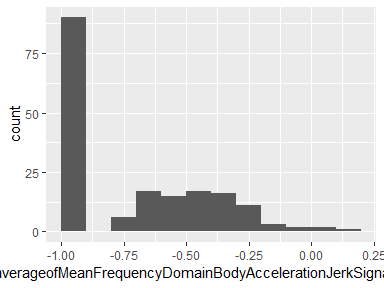
## averageofMeanFrequencyDomainBodyAccelerationJerkSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.78 |
| 1st and 3rd quartiles | -0.97; -0.2 |
| Min. and max. | -0.99; 0.28 |



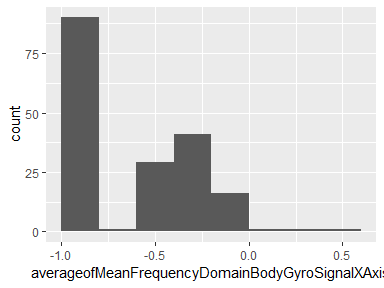
## averageofMeanFrequencyDomainBodyAccelerationJerkSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.87 |
| 1st and 3rd quartiles | -0.98; -0.47 |
| Min. and max. | -0.99; 0.16 |



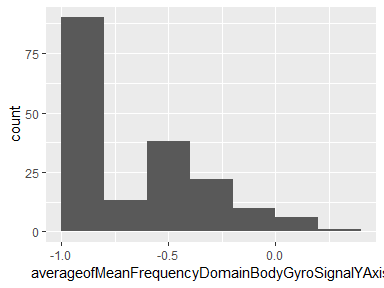
## averageofMeanFrequencyDomainBodyGyroSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.73 |
| 1st and 3rd quartiles | -0.97; -0.34 |
| Min. and max. | -0.99; 0.47 |



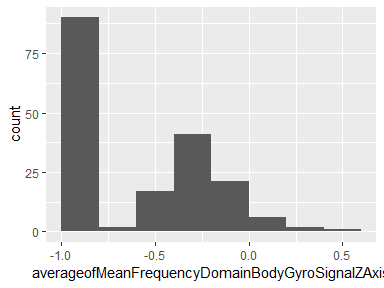
## averageofMeanFrequencyDomainBodyGyroSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.81 |
| 1st and 3rd quartiles | -0.97; -0.45 |
| Min. and max. | -0.99; 0.33 |



## averageofMeanFrequencyDomainBodyGyroSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.79 |
| 1st and 3rd quartiles | -0.96; -0.26 |
| Min. and max. | -0.99; 0.49 |



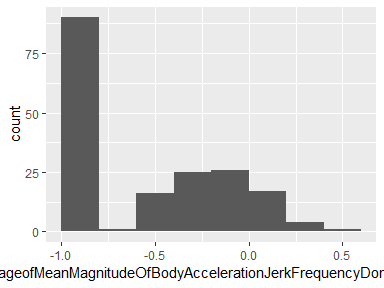
## averageofMeanMagnitudeOfBodyAccelerationFrequencyDomainSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.67 |
| 1st and 3rd quartiles | -0.96; -0.16 |
| Min. and max. | -0.99; 0.59 |



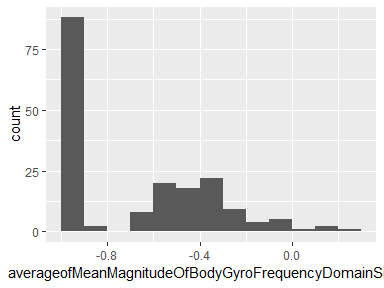
## averageofMeanMagnitudeOfBodyAccelerationJerkFrequencyDomainSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.79 |
| 1st and 3rd quartiles | -0.98; -0.19 |
| Min. and max. | -0.99; 0.54 |



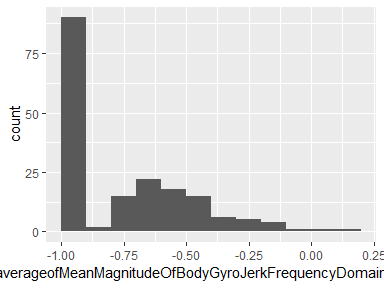
## averageofMeanMagnitudeOfBodyGyroFrequencyDomainSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.77 |
| 1st and 3rd quartiles | -0.96; -0.41 |
| Min. and max. | -0.99; 0.2 |



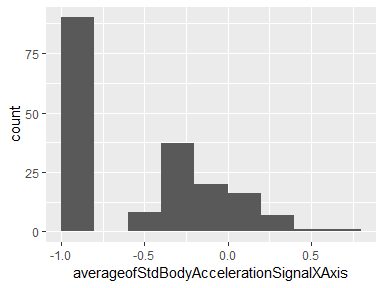
## averageofMeanMagnitudeOfBodyGyroJerkFrequencyDomainSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.88 |
| 1st and 3rd quartiles | -0.98; -0.58 |
| Min. and max. | -1; 0.15 |



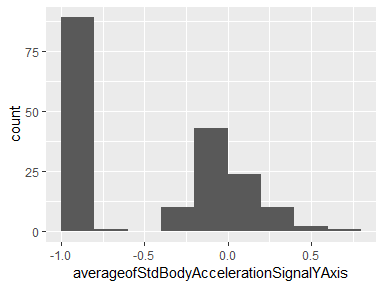
## averageofStdBodyAccelerationSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.75 |
| 1st and 3rd quartiles | -0.98; -0.2 |
| Min. and max. | -1; 0.63 |



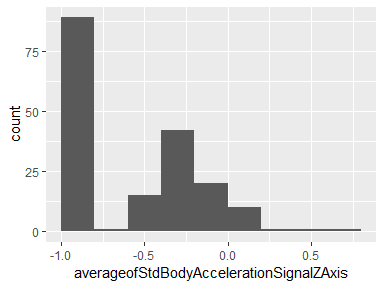
## averageofStdBodyAccelerationSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.51 |
| 1st and 3rd quartiles | -0.94; -0.03 |
| Min. and max. | -0.99; 0.62 |



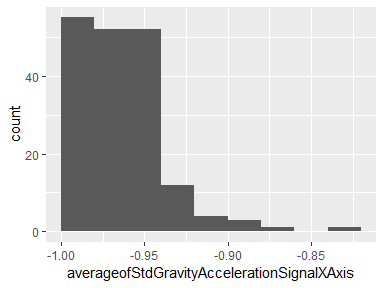
## averageofStdBodyAccelerationSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.65 |
| 1st and 3rd quartiles | -0.95; -0.23 |
| Min. and max. | -0.99; 0.61 |



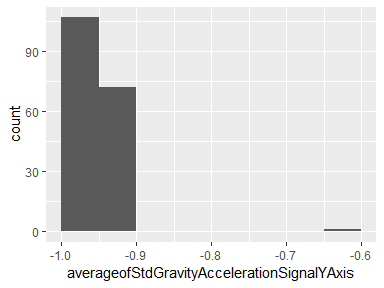
## averageofStdGravityAccelerationSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.97 |
| 1st and 3rd quartiles | -0.98; -0.95 |
| Min. and max. | -1; -0.83 |



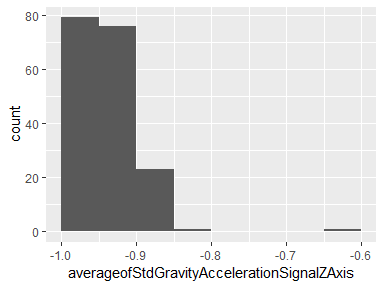
## averageofStdGravityAccelerationSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.96 |
| 1st and 3rd quartiles | -0.97; -0.94 |
| Min. and max. | -0.99; -0.64 |



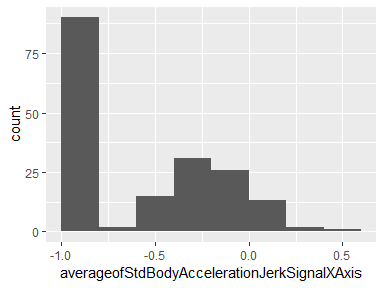
## averageofStdGravityAccelerationSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.95 |
| 1st and 3rd quartiles | -0.96; -0.92 |
| Min. and max. | -0.99; -0.61 |



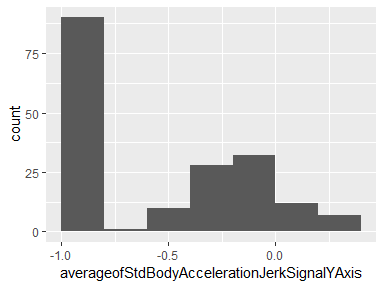
## averageofStdBodyAccelerationJerkSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.81 |
| 1st and 3rd quartiles | -0.98; -0.22 |
| Min. and max. | -0.99; 0.54 |



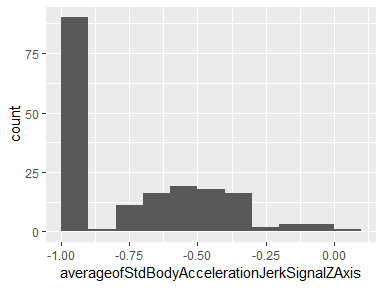
## averageofStdBodyAccelerationJerkSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.78 |
| 1st and 3rd quartiles | -0.97; -0.15 |
| Min. and max. | -0.99; 0.36 |



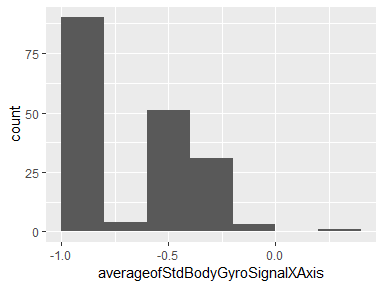
## averageofStdBodyAccelerationJerkSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.88 |
| 1st and 3rd quartiles | -0.98; -0.51 |
| Min. and max. | -0.99; 0.03 |



## averageofStdBodyGyroSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.79 |
| 1st and 3rd quartiles | -0.97; -0.44 |
| Min. and max. | -0.99; 0.27 |



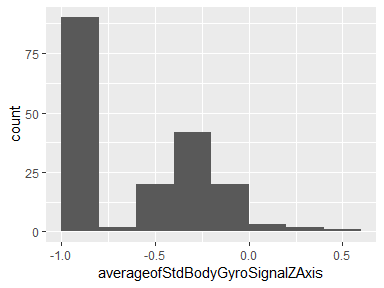
## averageofStdBodyGyroSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.8 |
| 1st and 3rd quartiles | -0.96; -0.42 |
| Min. and max. | -0.99; 0.48 |



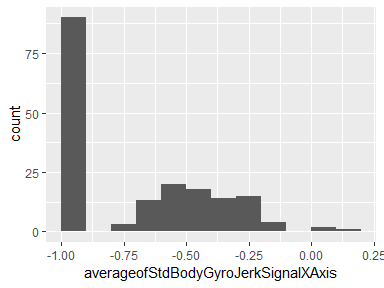
## averageofStdBodyGyroSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.8 |
| 1st and 3rd quartiles | -0.96; -0.31 |
| Min. and max. | -0.99; 0.56 |



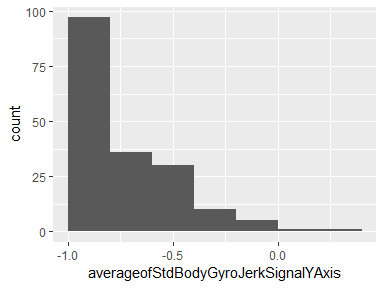
## averageofStdBodyGyroJerkSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.84 |
| 1st and 3rd quartiles | -0.98; -0.46 |
| Min. and max. | -1; 0.18 |



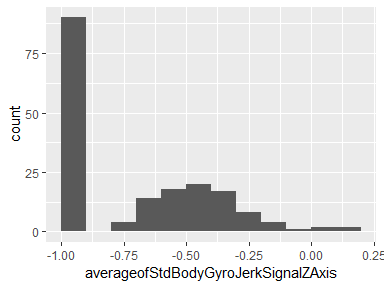
## averageofStdBodyGyroJerkSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.89 |
| 1st and 3rd quartiles | -0.98; -0.59 |
| Min. and max. | -1; 0.3 |



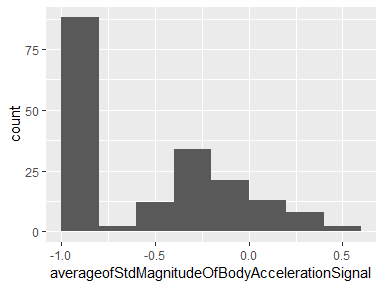
## averageofStdBodyGyroJerkSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.86 |
| 1st and 3rd quartiles | -0.98; -0.47 |
| Min. and max. | -1; 0.19 |



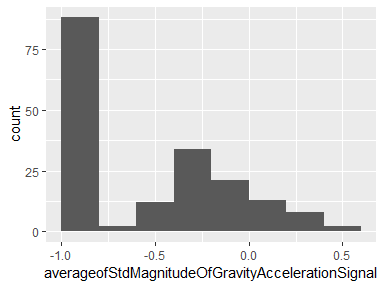
## averageofStdMagnitudeOfBodyAccelerationSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.61 |
| 1st and 3rd quartiles | -0.94; -0.21 |
| Min. and max. | -0.99; 0.43 |



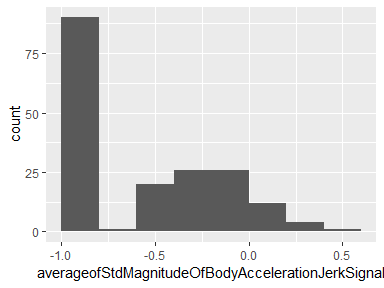
## averageofStdMagnitudeOfGravityAccelerationSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.61 |
| 1st and 3rd quartiles | -0.94; -0.21 |
| Min. and max. | -0.99; 0.43 |



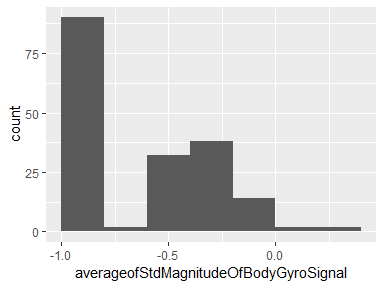
## averageofStdMagnitudeOfBodyAccelerationJerkSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.8 |
| 1st and 3rd quartiles | -0.98; -0.22 |
| Min. and max. | -0.99; 0.45 |



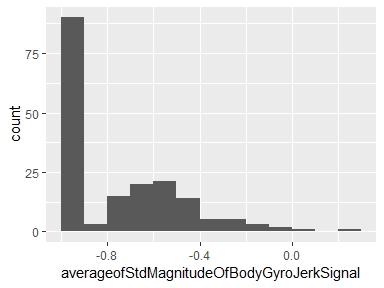
## averageofStdMagnitudeOfBodyGyroSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.74 |
| 1st and 3rd quartiles | -0.95; -0.36 |
| Min. and max. | -0.98; 0.3 |



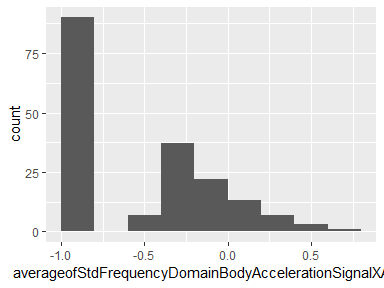
## averageofStdMagnitudeOfBodyGyroJerkSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.88 |
| 1st and 3rd quartiles | -0.98; -0.58 |
| Min. and max. | -1; 0.25 |



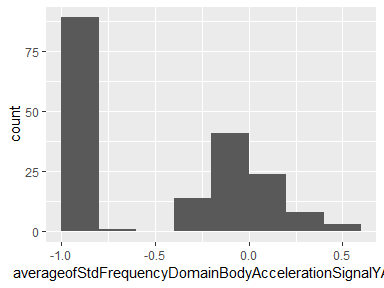
## averageofStdFrequencyDomainBodyAccelerationSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.75 |
| 1st and 3rd quartiles | -0.98; -0.2 |
| Min. and max. | -1; 0.66 |



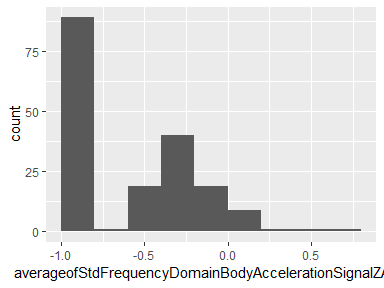
## averageofStdFrequencyDomainBodyAccelerationSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.51 |
| 1st and 3rd quartiles | -0.94; -0.08 |
| Min. and max. | -0.99; 0.56 |



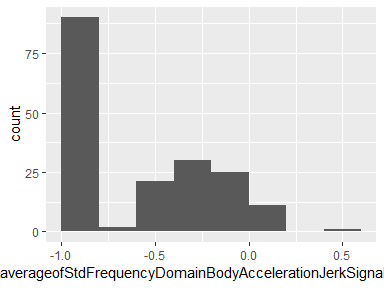
## averageofStdFrequencyDomainBodyAccelerationSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.64 |
| 1st and 3rd quartiles | -0.95; -0.27 |
| Min. and max. | -0.99; 0.69 |



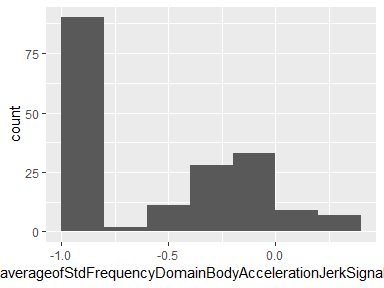
## averageofStdFrequencyDomainBodyAccelerationJerkSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.83 |
| 1st and 3rd quartiles | -0.98; -0.25 |
| Min. and max. | -1; 0.48 |



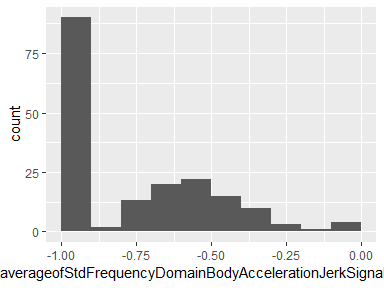
## averageofStdFrequencyDomainBodyAccelerationJerkSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.79 |
| 1st and 3rd quartiles | -0.97; -0.17 |
| Min. and max. | -0.99; 0.35 |



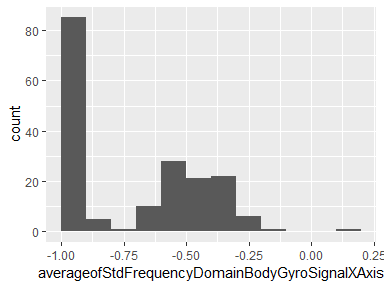
## averageofStdFrequencyDomainBodyAccelerationJerkSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.9 |
| 1st and 3rd quartiles | -0.98; -0.54 |
| Min. and max. | -0.99; -0.01 |



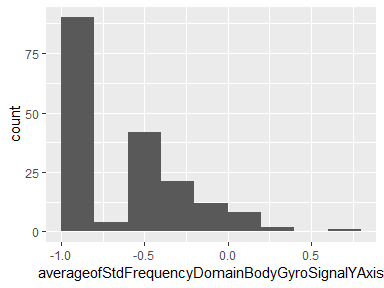
## averageofStdFrequencyDomainBodyGyroSignalXAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.81 |
| 1st and 3rd quartiles | -0.98; -0.48 |
| Min. and max. | -0.99; 0.2 |



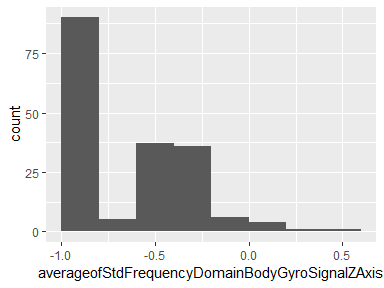
## averageofStdFrequencyDomainBodyGyroSignalYAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.8 |
| 1st and 3rd quartiles | -0.96; -0.42 |
| Min. and max. | -0.99; 0.65 |



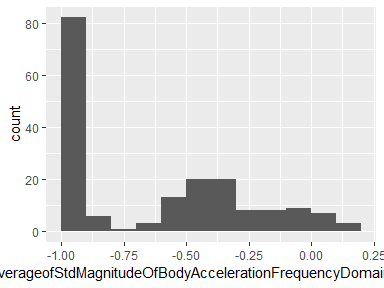
## averageofStdFrequencyDomainBodyGyroSignalZAxis

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.82 |
| 1st and 3rd quartiles | -0.96; -0.39 |
| Min. and max. | -0.99; 0.52 |



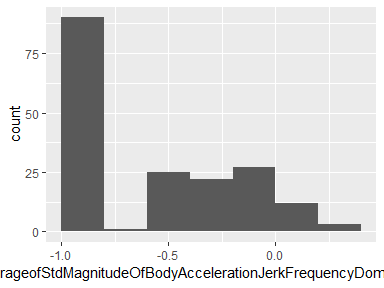
## averageofStdMagnitudeOfBodyAccelerationFrequencyDomainSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.65 |
| 1st and 3rd quartiles | -0.95; -0.37 |
| Min. and max. | -0.99; 0.18 |



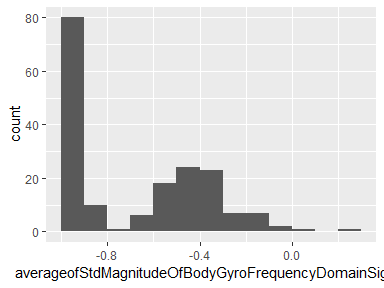
## averageofStdMagnitudeOfBodyAccelerationJerkFrequencyDomainSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.81 |
| 1st and 3rd quartiles | -0.98; -0.27 |
| Min. and max. | -0.99; 0.32 |



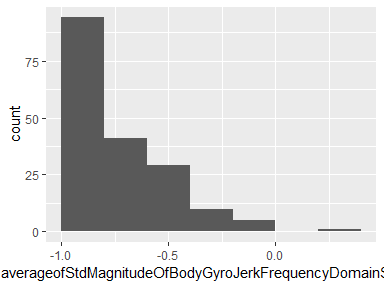
## averageofStdMagnitudeOfBodyGyroFrequencyDomainSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.77 |
| 1st and 3rd quartiles | -0.95; -0.43 |
| Min. and max. | -0.98; 0.24 |



## averageofStdMagnitudeOfBodyGyroJerkFrequencyDomainSignal

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.89 |
| 1st and 3rd quartiles | -0.98; -0.61 |
| Min. and max. | -1; 0.29 |



Report generation information:

* Created by AJ (username: ajohns34).
* Report creation time: Wed May 22 2019 10:31:41
* Report was run from directory: C:/Users/ajohns34/Box/Data Science Specialization/Assignment 5
* dataMaid v1.2.0 [Pkg: 2018-10-03 from CRAN (R 3.5.3)]
* R version 3.5.3 (2019-03-11).
* Platform: x86\_64-w64-mingw32/x64 (64-bit)(Windows >= 8 x64 (build 9200)).
* Function call: makeDataReport(data = average\_tidy, mode = c("summarize", "visualize", "check"), smartNum = FALSE, file = "codebook\_average\_tidy.Rmd", checks = list(character = "showAllFactorLevels", factor = "showAllFactorLevels", labelled = "showAllFactorLevels", haven\_labelled = "showAllFactorLevels", numeric = NULL, integer = NULL, logical = NULL, Date = NULL), listChecks = FALSE, maxProbVals = Inf, codebook = TRUE, reportTitle = "Codebook for average\_tidy")