Codebook Grouped

Contents

Set up Code book options

```r
knitr::opts_chunk$set(
  warning = TRUE, # show warnings during codebook generation
  message = TRUE, # show messages during codebook generation
  error = TRUE, # do not interrupt codebook generation in case of errors,
                # usually better for debugging
  echo = TRUE  # show R code
)
ggplot2::theme_set(ggplot2::theme_bw())
```

Code book preparation

```r
library(codebook)

codebook_data <- rio::import("codebook_source/accellerometer_grouped.rds")

# omit the following lines, if your missing values are already properly labelled
codebook_data <- detect_missing(codebook_data,
    only_labelled = TRUE, # only labelled values are autodetected as
                          # missing
    negative_values_are_missing = FALSE, # negative values are missing values
    ninety_nine_problems = TRUE,   # 99/999 are missing values, if they
                                   # are more than 5 MAD from the median
    )

codebook_data <- detect_scales(codebook_data)
```

Create codebook

```
codebook(codebook_data)
```

```
## No missing values.
```

Metadata

Description   Dataset name: Grouped Accelerometer Standard Deviation and Mean Data by Student and Activity

This data set contains the standard deviation and mean of the original data. See the README.txt found in the original data, "sample_data/getdata_projectfiles_UCI_HAR_Dataset/UCI HAR Dataset/README.txt", for more information.

Metadata for search engines

- **Spatial Coverage**: Online

- **Citation**: 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

- **URL**: https://github.com/rodelor97/GettingCleaningDataWeek4Project

- **Date published**: 2021-01-23

- **Creator**:

name	value
1	Robert de Lorimier

#Variables

grouped_activity

Grouped activity

Distribution   0 missing values.

Summary statistics

name	label	data_type	n_missing	complete_rate	n_unique	empty	min	max	white
grouped_activity	Grouped activity	character	0	1	6	0	6	18	

grouped_subject

Grouped subject

9

x
grouped_activity
grouped_subject
grouped_studentactivity_mean_of_timeof_body_accel_mean_x
grouped_studentactivity_mean_of_timeof_body_accel_mean_y
grouped_studentactivity_mean_of_timeof_body_accel_mean_z
grouped_studentactivity_mean_of_timeof_body_accel_std_x
grouped_studentactivity_mean_of_timeof_body_accel_std_y
grouped_studentactivity_mean_of_timeof_body_accel_std_z
grouped_studentactivity_mean_of_timeof_gravity_accel_mean_x
grouped_studentactivity_mean_of_timeof_gravity_accel_mean_y
grouped_studentactivity_mean_of_timeof_gravity_accel_mean_z
grouped_studentactivity_mean_of_timeof_gravity_accel_std_x
grouped_studentactivity_mean_of_timeof_gravity_accel_std_y
grouped_studentactivity_mean_of_timeof_gravity_accel_std_z
grouped_studentactivity_mean_of_timeof_body_accel_jerk_mean_x
grouped_studentactivity_mean_of_timeof_body_accel_jerk_mean_y
grouped_studentactivity_mean_of_timeof_body_accel_jerk_mean_z
grouped_studentactivity_mean_of_timeof_body_accel_jerk_std_x
grouped_studentactivity_mean_of_timeof_body_accel_jerk_std_y
grouped_studentactivity_mean_of_timeof_body_accel_jerk_std_z
grouped_studentactivity_mean_of_timeof_body_gyro_mean_x
grouped_studentactivity_mean_of_timeof_body_gyro_mean_y
grouped_studentactivity_mean_of_timeof_body_gyro_mean_z
grouped_studentactivity_mean_of_timeof_body_gyro_std_x
grouped_studentactivity_mean_of_timeof_body_gyro_std_y
grouped_studentactivity_mean_of_timeof_body_gyro_std_z
grouped_studentactivity_mean_of_timeof_body_gyro_jerk_mean_x
grouped_studentactivity_mean_of_timeof_body_gyro_jerk_mean_y
grouped_studentactivity_mean_of_timeof_body_gyro_jerk_mean_z
grouped_studentactivity_mean_of_timeof_body_gyro_jerk_std_x
grouped_studentactivity_mean_of_timeof_body_gyro_jerk_std_y
grouped_studentactivity_mean_of_timeof_body_gyro_jerk_std_z
grouped_studentactivity_mean_of_timeof_body_accel_magn_mean
grouped_studentactivity_mean_of_timeof_body_accel_magn_std
grouped_studentactivity_mean_of_timeof_gravity_accel_magn_mean
grouped_studentactivity_mean_of_timeof_gravity_accel_magn_std
grouped_studentactivity_mean_of_timeof_body_accel_jerk_magn_mean
grouped_studentactivity_mean_of_timeof_body_accel_jerk_magn_std
grouped_studentactivity_mean_of_timeof_body_gyro_magn_mean
grouped_studentactivity_mean_of_timeof_body_gyro_magn_std
grouped_studentactivity_mean_of_timeof_body_gyro_jerk_magn_mean
grouped_studentactivity_mean_of_timeof_body_gyro_jerk_magn_std
grouped_studentactivity_mean_of_frequ_body_accel_mean_x
grouped_studentactivity_mean_of_frequ_body_accel_mean_y
grouped_studentactivity_mean_of_frequ_body_accel_mean_z
grouped_studentactivity_mean_of_frequ_body_accel_std_x
grouped_studentactivity_mean_of_frequ_body_accel_std_y
grouped_studentactivity_mean_of_frequ_body_accel_std_z
grouped_studentactivity_mean_of_frequ_body_accel_mean_freq_x
grouped_studentactivity_mean_of_frequ_body_accel_mean_freq_y
grouped_studentactivity_mean_of_frequ_body_accel_mean_freq_z
grouped_studentactivity_mean_of_frequ_body_accel_jerk_mean_x
grouped_studentactivity_mean_of_frequ_body_accel_jerk_mean_y
grouped_studentactivity_mean_of_frequ_body_accel_jerk_mean_z
grouped_studentactivity_mean_of_frequ_body_accel_jerk_std_x
grouped_studentactivity_mean_of_frequ_body_accel_jerk_std_y
grouped_studentactivity_mean_of_frequ_body_accel_jerk_std_z
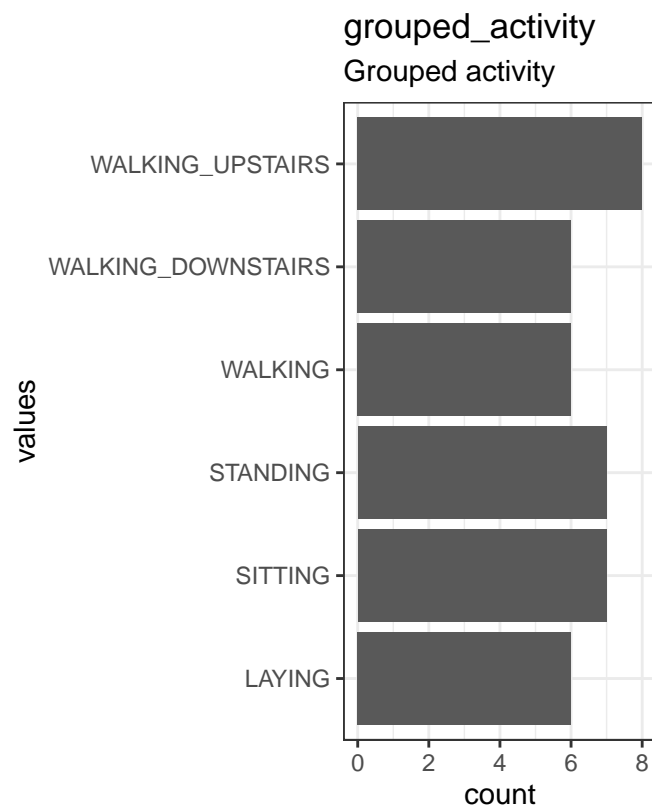
Figure 1: Distribution of values for grouped_activity
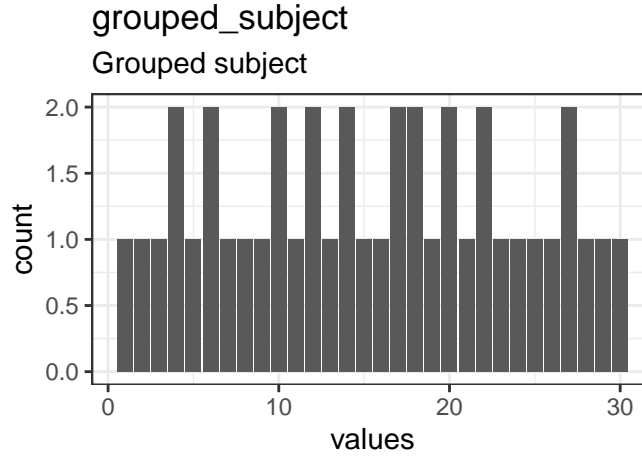
Figure 2: Distribution of values for grouped_subject

Distribution   0 missing values.

Summary statistics

name	label	data_type	n_missing	complete_rate	min	median	max	mean	sd
grouped_subject	Grouped subject	numeric	0	1	1	16	30	15.375	8.347232

grouped_studentactivity_mean_of_timeof_body_accel_mean_x

The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration mean X axis,

Figure 3: Distribution of values for grouped_studentactivity_mean_of_timeof_body_accel_mean_x

Distribution   0 missing values.

Summary statistics

name	label	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentactivity_mean_of_timeof_body_accel_mean_x	The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration mean X axis,	numeric	0	1	0.27	0.28	0.28	0.2743	37.87	039049

grouped_studentactivity_mean_of_timeof_body_accel_mean_y

The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration mean Y axis,

Figure 4: Distribution of values for grouped_studentactivity_mean_of_timeof_body_accel_mean_y

Distribution   0 missing values.

Summary statistics

name	label	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentactivity_mean_of_timeof_body_accel_mean_y	The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration mean Y axis,	numeric	0	1	-0.021	-0.018	-0.013	-0.0174593		0.0017419

grouped_studentactivity_mean_of_timeof_body_accel_mean_z

The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration mean Z axis,

Distribution   0 missing values.

grouped_studentactivity_mean_of_time

The mean of data grouped by student
and activity for time domains
signal (50Hz const rate), body
acceleration mean Z axis,

Figure 5: Distribution of values for grouped_studentactivity_mean_of_timeof_body_accel_mean_z

Summary statistics

name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentact ivity_mean_of_timeof_body_accel_mean_z	The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration mean Z axis,	numeric	0	1	- 0.12	- 0.11	- 0.1	- 0.1087596	0.0037075	

grouped__studentactivity__mean__of__timeof__body__accel__std__x

The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration standard deviation X axis,

grouped_studentactivity_mean_of_time

The mean of data grouped by student
and activity for time domains
signal (50Hz const rate), body
acceleration standard deviation X
axis,

Figure 6: Distribution of values for grouped_studentactivity_mean_of_timeof_body_accel_std_x

Distribution 0 missing values.

Summary statistics

name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentact ivity_mean_of_timeof_body_student_std	The mean of data grouped by student and activity for time domains signal	numeric	0	1	- 0.99	- 0.62	- 0.13	- 0.6281165	0.1688722	

grouped_studentactivity_mean_of_time

The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration standard deviation Y axis,

Figure 7: Distribution of values for grouped_studentactivity_mean_of_timeof_body_accel_std_y

Summary statistics

name	label	data_type	missing	complete	n	rate	min	median	max	mean	sd	hist
grouped_studentac...	The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration standard deviation Y axis,	...al_std_	numeric	0	1	1	-	-0.97	0.12 0.53	-	0.2118708 0.5310773	

grouped_studentactivity_mean_of_timeof_body_accel_std_z

The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration standard deviation Z axis,

grouped_studentactivity_mean_of_time

The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration standard deviation Z axis,

Figure 8: Distribution of values for grouped_studentactivity_mean_of_timeof_body_accel_std_z

Distribution   0 missing values.

Summary statistics

name	label	data_type	missing	complete	n	rate	min	median	max	mean	sd	hist
grouped_studentac...	The mean of data grouped by student and activity for time domains signal	...al_std_	numeric	0	1	1	-	-0.98	-0.65	-0.0820.6451814	-	0.1710591

grouped_studentactivity_mean_of_time

The mean of data grouped by student
and activity for time domains
signal (50Hz const rate), gravity
acceleration mean X axis,

Figure 9: Distribution of values for grouped_studentactivity_mean_of_timeof_gravity_accel_mean_x

Summary statistics

name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentactivity_mean_of_timeof_gravity_accel_mean_x	The mean of data grouped by student and activity for time domains signal (50Hz const rate), gravity acceleration mean X axis,	numeric	0	1	0.48	0.67	0.96	0.6789863	0.0849809	

grouped_studentactivity_mean_of_timeof_gravity_accel_mean_y

The mean of data grouped by student and activity for time domains signal (50Hz const rate), gravity acceleration mean Y axis,

grouped_studentactivity_mean_of_time

The mean of data grouped by student
and activity for time domains
signal (50Hz const rate), gravity
acceleration mean Y axis,
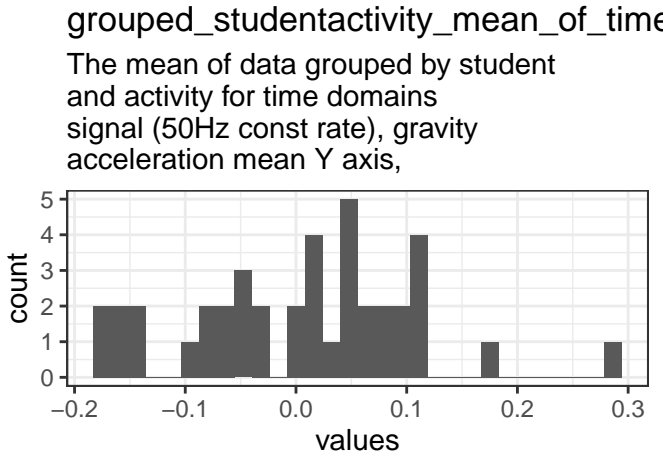
Figure 10: Distribution of values for grouped_studentactivity_mean_of_timeof_gravity_accel_mean_y

Distribution   0 missing values.

Summary statistics

name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentactivity_mean_of_timeof_gravity_accel_mean_y	The mean of data grouped by student and activity for time	numeric	0	1	-0.18	0.019	0.28	0.0043711	0.1029381	

grouped_studentactivity_mean_of_time

The mean of data grouped by student and activity for time domains signal (50Hz const rate), gravity acceleration mean Z axis,
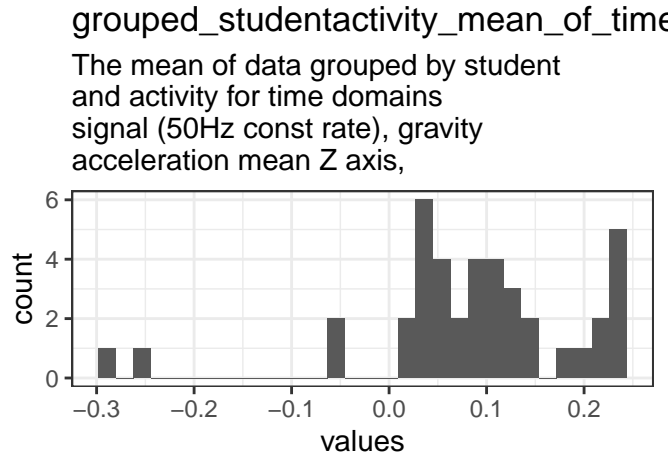
Figure 11: Distribution of values for grouped_studentactivity_mean_of_timeof_gravity_accel_mean_z

Summary statistics

name	label	data_type	missing	complete	n	min	median	max	mean	sd	hist
grouped_studentact...	The mean of data grouped by student and activity for time domains signal (50Hz const rate), gravity acceleration mean Z axis,	gravity_accel_mean_z numeric	0	1	- 0.28	0.092	0.24	0.086	25.23	30867	

grouped_studentactivity_mean_of_timeof_gravity_accel_std_x

The mean of data grouped by student and activity for time domains signal (50Hz const rate), gravity acceleration standard deviation X axis,

grouped_studentactivity_mean_of_time

The mean of data grouped by student and activity for time domains signal (50Hz const rate), gravity acceleration standard deviation X axis,

Figure 12: Distribution of values for grouped_studentactivity_mean_of_timeof_gravity_accel_std_x

Distribution   0 missing values.

Summary statistics

name	label	data_type	missing	complete	n	min	median	max	mean	sd	hist
grouped_studentac...	The mean of data grouped by student and activity for time domains signal	gravity_accel_std... numeric	0	1	-	-	-	-	0.011541		

grouped_studentactivity_mean_of_time

The mean of data grouped by student
and activity for time domains
signal (50Hz const rate), gravity
acceleration standard deviation Y
axis,

Figure 13: Distribution of values for grouped_studentactivity_mean_of_timeof_gravity_accel_std_y

Summary statistics

name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentac...	The mean of data grouped by student and activity for time domains signal (50Hz const rate), gravity acceleration standard deviation Y axis,	numeric	0	1	- 0.98	- 0.96	- 0.9	- 0.955658	0.0134074	

grouped__studentactivity__mean__of__timeof_gravity__accel__std_z

The mean of data grouped by student and activity for time domains signal (50Hz const rate), gravity acceleration standard deviation Z axis,

grouped_studentactivity_mean_of_time

The mean of data grouped by student
and activity for time domains
signal (50Hz const rate), gravity
acceleration standard deviation Z
axis,

Figure 14: Distribution of values for grouped_studentactivity_mean_of_timeof_gravity_accel_std_z

Distribution   0 missing values.

Summary statistics

name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentac...	The mean of data grouped by student and activity for time domains signal	numeric	0	1	- 0.97	- 0.94	- 0.88	- 0.9420149	0.0182392	

grouped_studentactivity_mean_of_time

The mean of data grouped by student
and activity for time domains
signal (50Hz const rate), body
acceleration jerk mean X axis,

Figure 15: Distribution of values for grouped_studentactivity_mean_of_timeof_body_accel_jerk_mean_x

Summary statistics

name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentact...	The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration jerk mean X axis,	... jerk_mean_x	1		0.057	0.078	0.087	0.078	0.0054	208

grouped_studentactivity_mean_of_timeof_body_accel_jerk_mean_y

The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration jerk mean Y axis,

grouped_studentactivity_mean_of_time

The mean of data grouped by student
and activity for time domains
signal (50Hz const rate), body
acceleration jerk mean Y axis,

Figure 16: Distribution of values for grouped_studentactivity_mean_of_timeof_body_accel_jerk_mean_y
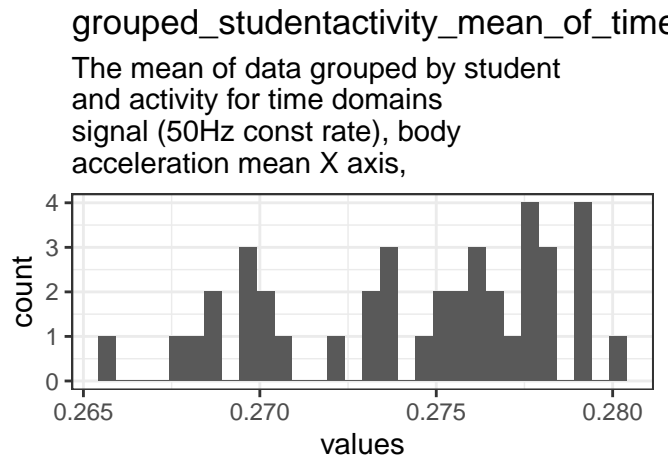
Distribution   0 missing values.

Summary statistics

name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentact...	The mean of data grouped by student and activity for time	...jerk_mean_y	1	-	0.0031	0.0072	0.020	0.0074	0.0054	544

grouped_studentactivity_mean_of_time

The mean of data grouped by student
and activity for time domains
signal (50Hz const rate), body
acceleration jerk mean Z axis,

Figure 17: Distribution of values for grouped_studentactivity_mean_of_timeof_body_accel_jerk_mean_z

Summary statistics

name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentacti...	The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration jerk mean Z axis,	...of_body__accel__jerk__mean__z	1	-	-0.02	-0.004	0.016	0.004	-	0.0059262 0.0044584

grouped__studentactivity__mean__of__timeof__body__accel__jerk__std__x

The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration jerk standard deviation X axis,

grouped_studentactivity_mean_of_time

The mean of data grouped by
student and activity for time
domains signal (50Hz const rate),
body acceleration jerk standard
deviation X axis,

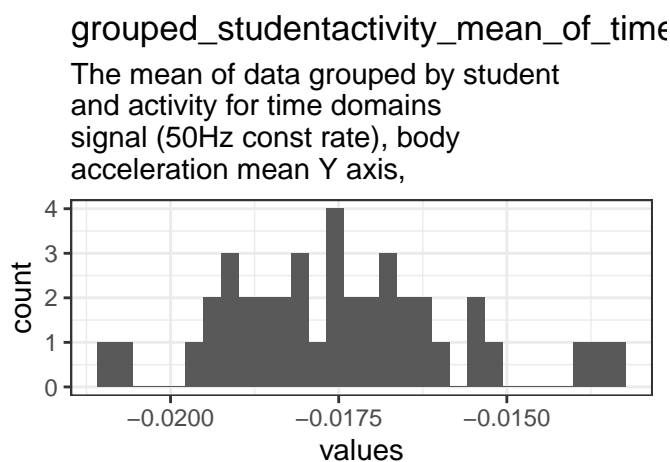
Figure 18: Distribution of values for grouped_studentactivity_mean_of_timeof_body_accel_jerk_std_x

Distribution   0 missing values.

Summary statistics

name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentacti...	The mean of data grouped by student and activity for time domains signal...	...of_body__accel__jerk__std__x	1	-	-	-	-	-	0.99 0.64 0.17 0.6554746	0.1642441

grouped_studentactivity_mean_of_time

The mean of data grouped by
student and activity for time
domains signal (50Hz const rate),
body acceleration jerk standard
deviation Y axis,
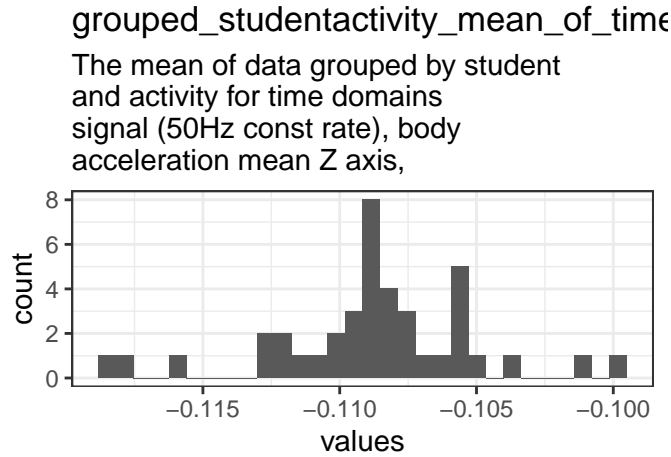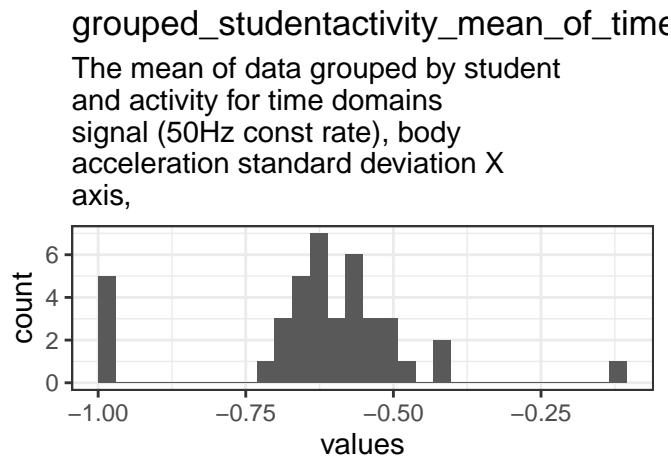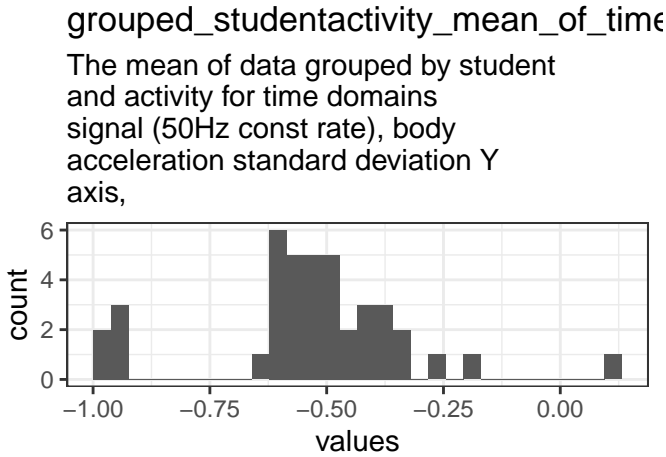
Figure 19: Distribution of values for grouped_studentactivity_mean_of_timeof_body_accel_jerk_std_y

Summary statistics

name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studenta...	The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration jerk standard deviation Y axis,	numeric	0	1	-0.99	-0.62	0.0041	-0.6208116	0.1873311	

grouped_studentactivity_mean_of_timeof_body_accel_jerk_std_z

The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration jerk standard deviation Z axis,

grouped_studentactivity_mean_of_time

The mean of data grouped by
student and activity for time
domains signal (50Hz const rate),
body acceleration jerk standard
deviation Z axis,

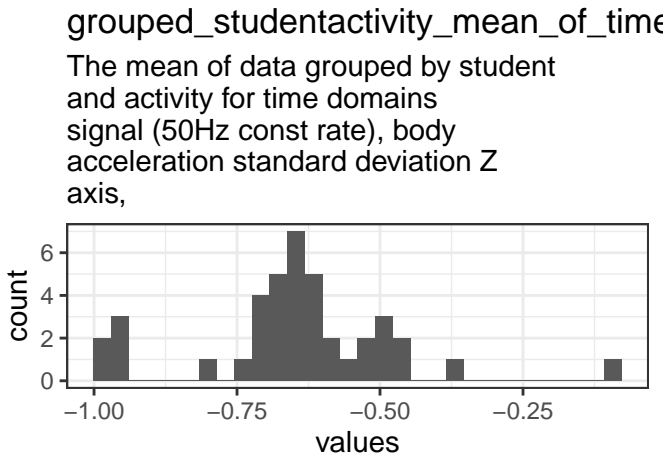Figure 20: Distribution of values for grouped_studentactivity_mean_of_timeof_body_accel_jerk_std_z

Distribution   0 missing values.

Summary statistics

name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentact...	The mean of data grouped by student and activity for time domains signal	numeric	0	1	-0.99	-0.78	-0.39	-0.778499	0.119344	

grouped_studentactivity_mean_of_time

The mean of data grouped by student
and activity for time domains
signal (50Hz const rate), body
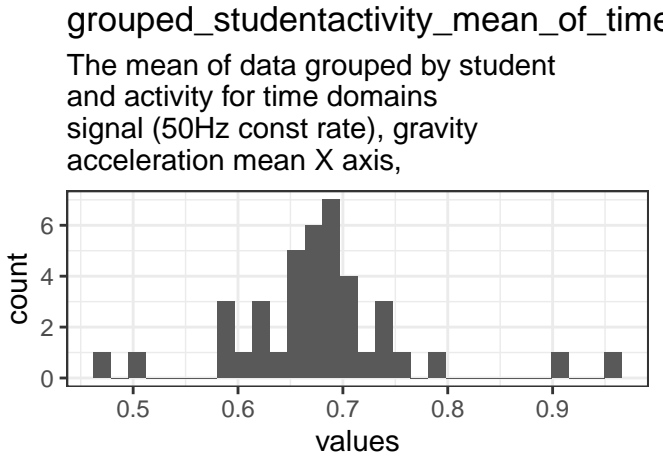gyroscope 3–axial raw signal mean X
axis,

Figure 21: Distribution of values for grouped_studentactivity_mean_of_timeof_body_gyro_mean_x

Summary statistics

name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentac...	The mean of data grouped by student and activity for time domains signal (50Hz const rate), body gyroscope 3-axial raw signal mean X axis,	numeric	0	1	- 0.07	- 0.028	0.0078	-	0.0206417 0.0314277	

grouped_studentactivity_mean_of_timeof_body_gyro_mean_y

The mean of data grouped by student and activity for time domains signal (50Hz const rate), body gyroscope 3-axial raw signal mean Y axis,

grouped_studentactivity_mean_of_time

The mean of data grouped by student
and activity for time domains
signal (50Hz const rate), body
gyroscope 3–axial raw signal mean Y
axis,
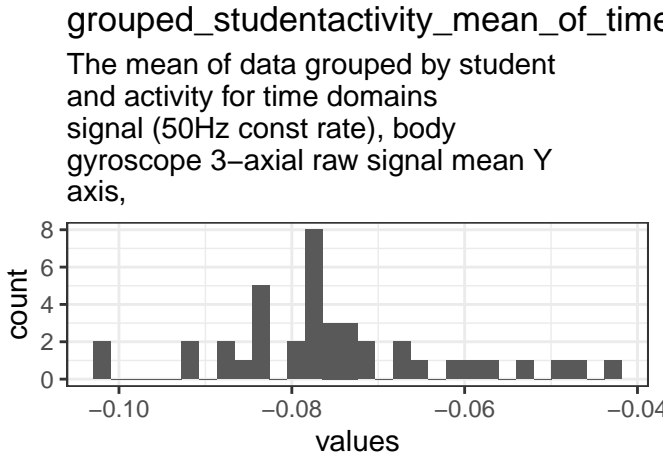
Figure 22: Distribution of values for grouped_studentactivity_mean_of_timeof_body_gyro_mean_y

Distribution   0 missing values.

Summary statistics

name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentac...	The mean of data grouped by student and activity for time domains signal	numeric	0	1	- 0.1	- 0.077	- 0.042	- 0.0759308	0.0132502	

grouped_studentactivity_mean_of_time

The mean of data grouped by student
and activity for time domains
signal (50Hz const rate), body
gyroscope 3–axial raw signal mean Z
axis,

Figure 23: Distribution of values for grouped_studentactivity_mean_of_timeof_body_gyro_mean_z

Summary statistics

name	label	data_type	missing	complete	n	min	median	max	mean	sd	hist
grouped_studentac...	The mean of data grouped by student and activity for time domains signal (50Hz const rate), body gyroscope 3-axial raw signal mean Z axis,	numeric	0	1		0.048	0.088	0.12	0.0884	0.012	2062

grouped_studentactivity_mean_of_timeof_body_gyro_std_x

The mean of data grouped by student and activity for time domains signal (50Hz const rate), body gyroscope 3-axial raw signal standard deviation X axis,

grouped_studentactivity_mean_of_time

The mean of data grouped by
student and activity for time
domains signal (50Hz const rate),
body gyroscope 3–axial raw signal
standard deviation X axis,
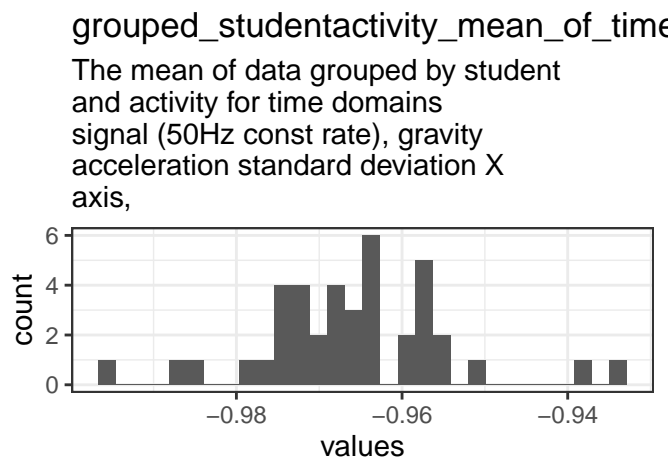

Figure 24: Distribution of values for grouped_studentactivity_mean_of_timeof_body_gyro_std_x

Distribution   0 missing values.

Summary statistics

name	label	data_type	missing	complete	n	min	median	max	mean	sd	hist
grouped_studentac...	The mean of data grouped by student and activity for time domains signal	numeric	0	1		-0.999	-0.72	0.359	0.7344581	0.1182454	

grouped_studentactivity_mean_of_time...

The mean of data grouped by
student and activity for time
domains signal (50Hz const rate),
body gyroscope 3–axial raw signal
standard deviation Y axis,

Figure 25: Distribution of values for grouped_studentactivity_mean_of_timeof_body_gyro_std_y

Summary statistics

name	label	data	ntype	missing	complete	n	mean	median	max	mean	sd	hist
grouped_studenta...	The mean of data grouped by student and activity for time domains signal (50Hz const rate), body gyroscope 3-axial raw signal standard deviation Y axis,	ctivity_mean_of_timeof_body_gyro_std_y	numeric	0	1	- 0.99	- 0.73	- 0.22	- 0.70	0.2843	0.1716727

grouped_studentactivity_mean_of_timeof_body_gyro_std_z

The mean of data grouped by student and activity for time domains signal (50Hz const rate), body gyroscope 3-axial raw signal standard deviation Z axis,

grouped_studentactivity_mean_of_time...

The mean of data grouped by
student and activity for time
domains signal (50Hz const rate),
body gyroscope 3–axial raw signal
standard deviation Z axis,
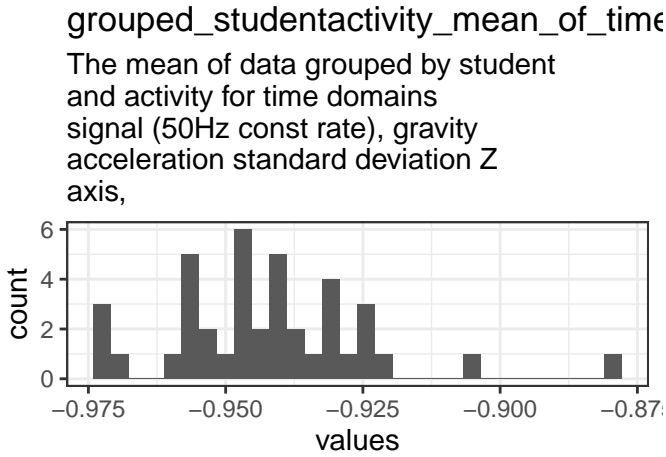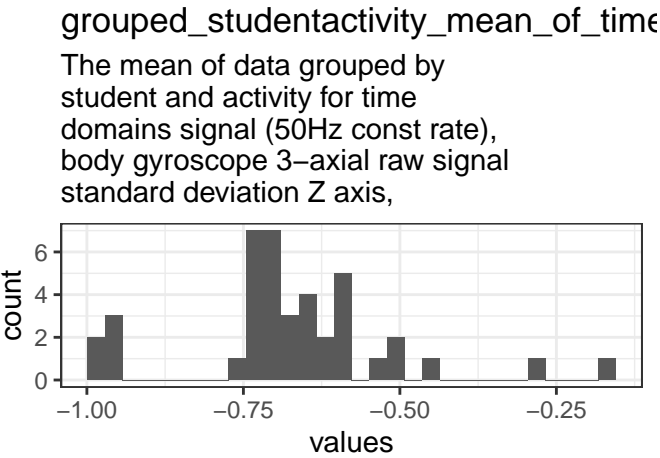

Figure 26: Distribution of values for grouped_studentactivity_mean_of_timeof_body_gyro_std_z

Distribution   0 missing values.

Summary statistics

name	label	data	ntype	missing	complete	n	mean	median	max	mean	sd	hist
grouped_students...	The mean of data grouped by stud...	...tivity_mean_of_timeof_body...	std	numeric	0	1					0.1642847

grouped_studentactivity_mean_of_time

The mean of data grouped by student
and activity for time domains
signal (50Hz const rate), body
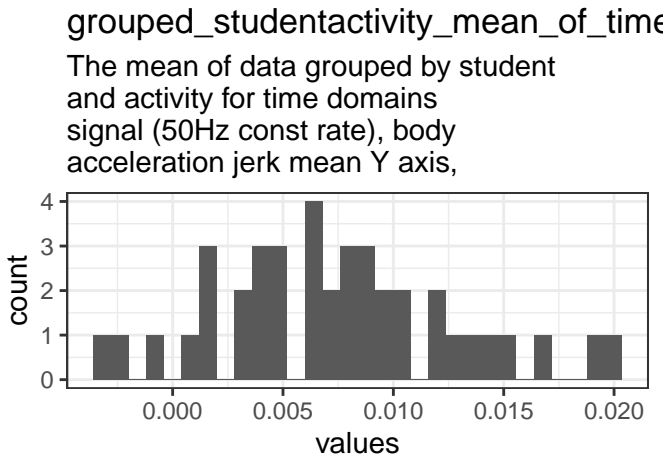gyroscope 3–axial raw signal jerk
mean X axis,

Figure 27: Distribution of values for grouped_studentactivity_mean_of_timeof_body_gyro_jerk_mean_x

Distribution   0 missing values.

Summary statistics

name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentac...	The mean of data grouped by student and activity for time domains signal (50Hz const rate), body gyroscope 3-axial raw signal jerk mean X axis,	...me_of_body_gyro_jerk_mean_x numeric	0	1	- 0.11	- 0.098	- 0.059	- 0.096	0.0112761 3073	

grouped_studentactivity_mean_of_timeof_body_gyro_jerk_mean_y

The mean of data grouped by student and activity for time domains signal (50Hz const rate), body gyroscope 3-axial raw signal jerk mean Y axis,

grouped_studentactivity_mean_of_time

The mean of data grouped by student
and activity for time domains
signal (50Hz const rate), body
gyroscope 3–axial raw signal jerk
mean Y axis,
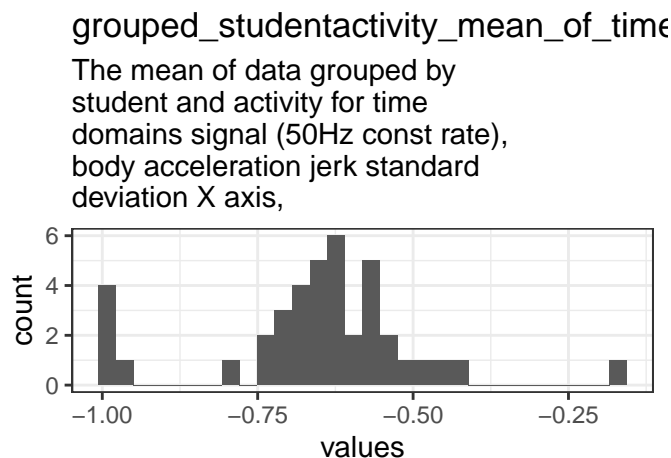

Figure 28: Distribution of values for grouped_studentactivity_mean_of_timeof_body_gyro_jerk_mean_y

Distribution   0 missing values.

Summary statistics

grouped_studentactivity_mean_of_time

The mean of data grouped by student
and activity for time domains
signal (50Hz const rate), body
gyroscope 3–axial raw signal jerk
mean Z axis,

Figure 29: Distribution of values for grouped_studentactivity_mean_of_timeof_body_gyro_jerk_mean_z

Distribution   0 missing values.

Summary statistics

name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentac...	The mean of data grouped by student and activity for time domains signal (50Hz const rate), body gyroscope 3-axial raw signal jerk mean Z axis,	numeric	0	1	- 0.064	- 0.055	- 0.042	- 0.054676	0.0047822	

grouped_studentactivity_mean_of_timeof_body_gyro_jerk_std_x

The mean of data grouped by student and activity for time domains signal (50Hz const rate), body gyroscope 3-axial raw signal jerk standard deviation X axis,

grouped_studentactivity_mean_of_tim

The mean of data grouped by student
and activity for time domains
signal (50Hz const rate), body
gyroscope 3–axial raw signal jerk
standard deviation X axis,

Figure 30: Distribution of values for grouped_studentactivity_mean_of_timeof_body_gyro_jerk_std_x

Distribution   0 missing values.

Summary statistics

grouped_studentactivity_mean_of_time

The mean of data grouped by student
and activity for time domains
signal (50Hz const rate), body
gyroscope 3–axial raw signal jerk
standard deviation Y axis,

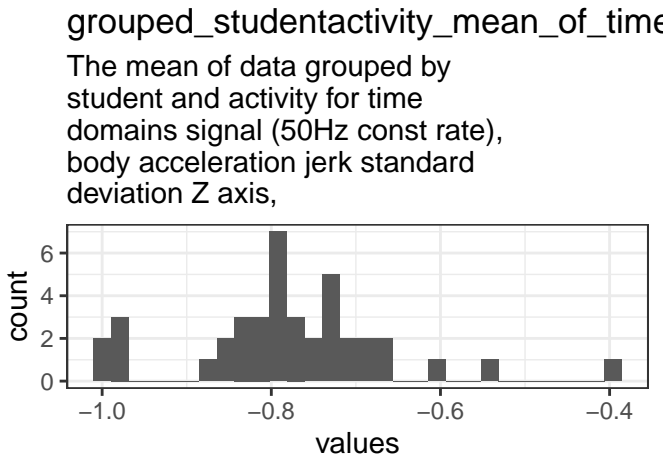
Figure 31: Distribution of values for grouped_studentactivity_mean_of_timeof_body_gyro_jerk_std_y

Distribution   0 missing values.

Summary statistics

name	label	data_ntype missing complete n median max	mean sd	hist
grouped_studenta...	The mean of data grouped by student and activity for time domains signal (50Hz const rate), body gyroscope 3-axial raw signal jerk standard deviation Y axis,	...gyro_jerk_std_y 1 - - - - 0.990.81 0.3	0.1346078 0.7975287	

grouped_studentactivity_mean_of_timeof_body_gyro_jerk_std_z

The mean of data grouped by student and activity for time domains signal (50Hz const rate), body gyroscope 3-axial raw signal jerk standard deviation Z axis,

Distribution   0 missing values.

Summary statistics

name	label	data_ntype missing complete n median max	mean sd	hist
grouped_studenta...	The mean of data grouped by student and activity for time domains signal (50Hz const rate), body gyroscope 3-axial raw signal jerk standard deviation Z axis,	...gyro_jerk_std_z 1 - - - - 0.990.76 0.051	0.1596695 0.7439463	

grouped_studentactivity_mean_of_tim

The mean of data grouped by student
and activity for time domains
signal (50Hz const rate), body
gyroscope 3–axial raw signal jerk
standard deviation Z axis,
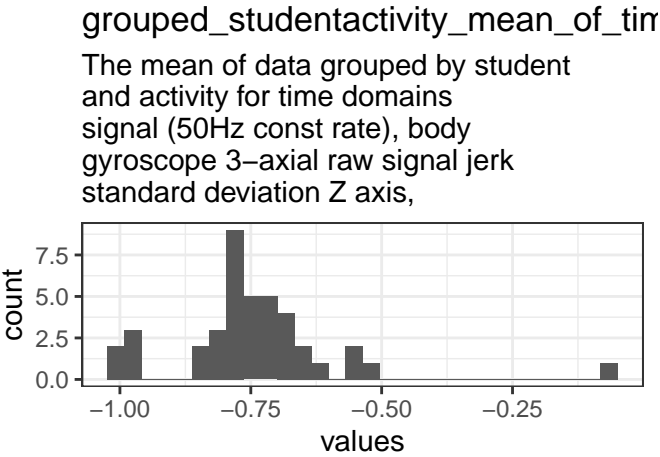
Figure 32: Distribution of values for grouped_studentactivity_mean_of_timeof_body_gyro_jerk_std_z

grouped_studentactivity_mean_of_timeof_body_accel_magn_mean

The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration euclidean norm magnitude mean

grouped_studentactivity_mean_of_tim

The mean of data grouped by
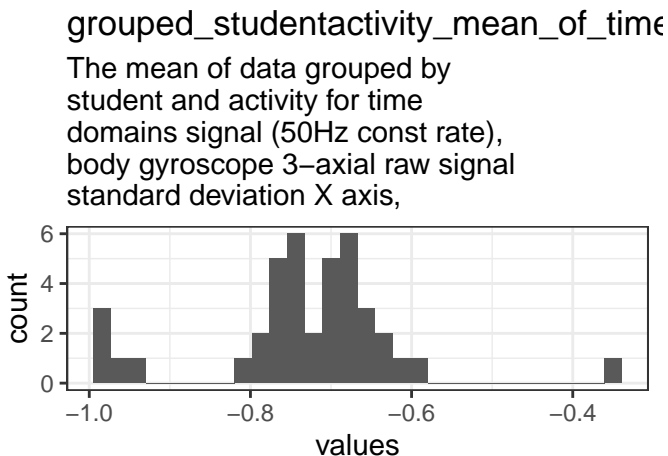student and activity for time
domains signal (50Hz const rate),
body acceleration euclidean norm
magnitude mean

Figure 33: Distribution of values for grouped_studentactivity_mean_of_timeof_body_accel_magn_mean

Distribution   0 missing values.

Summary statistics

name	label	data_type	missing	complete	n	min	median	max	mean	sd	hist
grouped_studentac...	The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration euclidean norm magnitude mean	numeric	0	1	-	-	-	-	-0.98	0.54	0.055 -0.57 3165	0.1848734

grouped_studentactivity_mean_of_timeof_body_accel_magn_std

The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration euclidean norm magnitude standard deviation

grouped_studentactivity_mean_of_time

The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration euclidean norm magnitude standard deviation
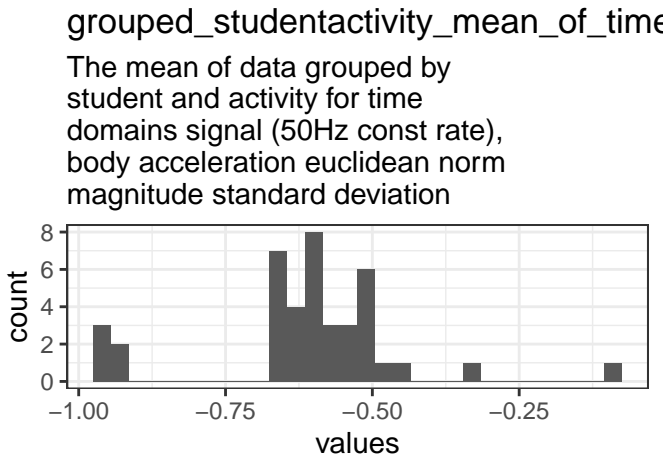
Figure 34: Distribution of values for grouped_studentactivity_mean_of_timeof_body_accel_magn_std

name	label	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentactivity_mean_of_timeof_body_accel_magn_std	The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration euclidean norm magnitude standard deviation	numeric	1	- 0.97	- 0.6	- 0.1	- 0.6124787	0.1677224	

grouped_studentactivity_mean_of_timeof_gravity_accel_magn_mean

The mean of data grouped by student and activity for time domains signal (50Hz const rate), gravity acceleration euclidean norm magnitude mean

grouped_studentactivity_mean_of_tim

The mean of data grouped by student and activity for time domains signal (50Hz const rate), gravity acceleration euclidean norm magnitude mean

Figure 35: Distribution of values for grouped_studentactivity_mean_of_timeof_gravity_accel_magn_mean

Distribution   0 missing values.

Summary statistics

name	label	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentactivity_mean_of_timeof_gravity_accel_magn_mean	The mean of data grouped by student and activity for time domains signal (50Hz const rate), gravity acceleration	numeric	1	- 0.98	- 0.54	- 0.055	- 0.573165	0.1848734	

grouped_studentactivity_mean_of_time

The mean of data grouped by
student and activity for time
domains signal (50Hz const rate),
gravity acceleration euclidean norm
magnitude standard deviation

Figure 36: Distribution of values for grouped_studentactivity_mean_of_timeof_gravity_accel_magn_std

name	label	data	n	type	missing	complete	min	median	max	mean	sd	hist
grouped_studentac	The mean of data grouped by student and activity for time domains signal (50Hz const rate), gravity acceleration euclidean norm magnitude standard deviation	timeof_gravity_accel_magn_std	1				-0.97	-0.6	-0.1		0.6124787	0.1677224

grouped_studentactivity_mean_of_timeof_body_accel_jerk_magn_mean

The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration jerk euclidean norm magnitude mean

grouped_studentactivity_mean_of_time

The mean of data grouped by student
and activity for time domains
signal (50Hz const rate), body
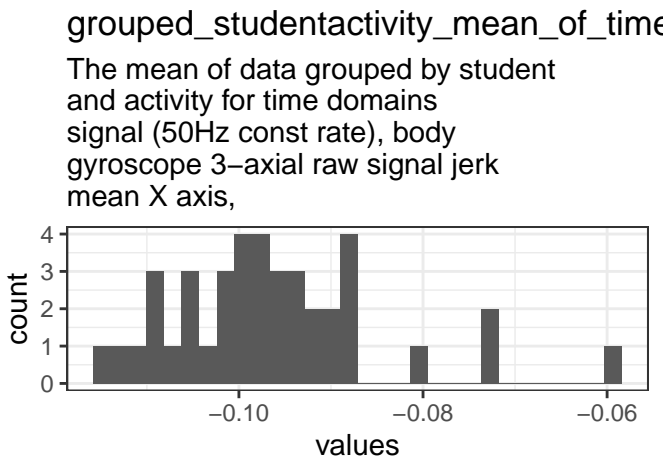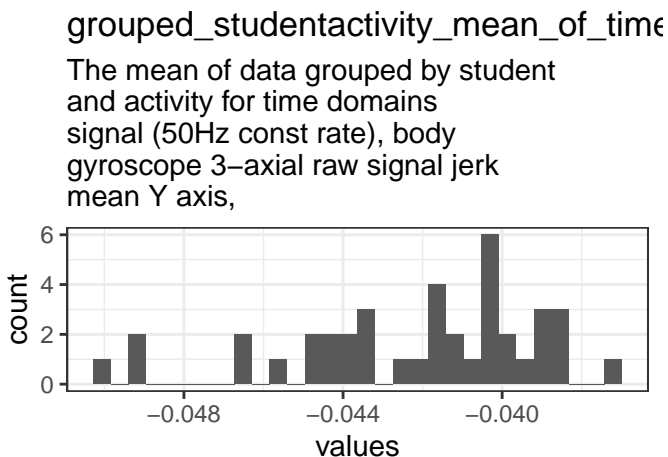acceleration jerk euclidean norm
magnitude mean

Figure 37: Distribution of values for grouped_studentactivity_mean_of_timeof_body_accel_jerk_magn_mean

Distribution 0 missing values.

Summary statistics

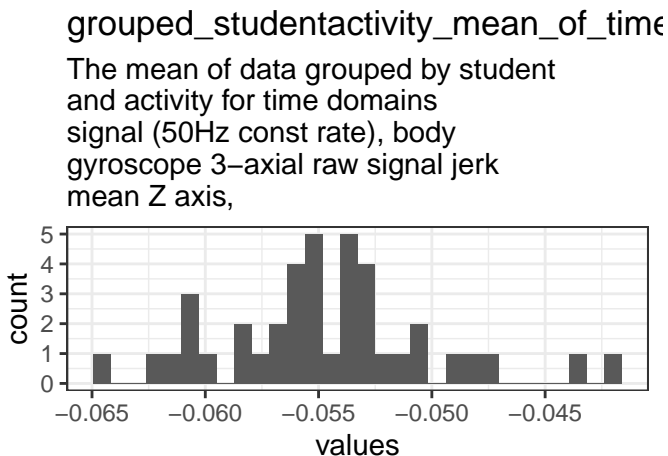| name	label	data	n	type	missing	complete	min	median	max	mean	sd	hist
grouped_studentact	The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration	timeof_body_accel_jerk_magn_mean	0	numeric	-	-	-0.99	-0.66	-0.15		0.6654239	0.1608982

grouped_studentactivity_mean_of_time

The mean of data grouped by student
and activity for time domains
signal (50Hz const rate), body
acceleration jerk euclidean norm
magnitude standard deviation

Figure 38: Distribution of values for grouped_studentactivity_mean_of_timeof_body_accel_jerk_magn_std

name	label	data_type	n_missing	complete	min	median	max	mean	sd	hist
grouped_studenta...	The mean of data grouped by student and activity for time domains signal (50Hz const rate), body acceleration jerk euclidean norm magnitude standard deviation	...jerk_magn_std numeric	-	-	-	-	0.99 0.63 0.088 0.643	0.1723774 5118		

grouped_studentactivity_mean_of_timeof_body_gyro_magn_mean

The mean of data grouped by student and activity for time domains signal (50Hz const rate), body gyroscope 3-axial raw signal euclidean norm magnitude mean

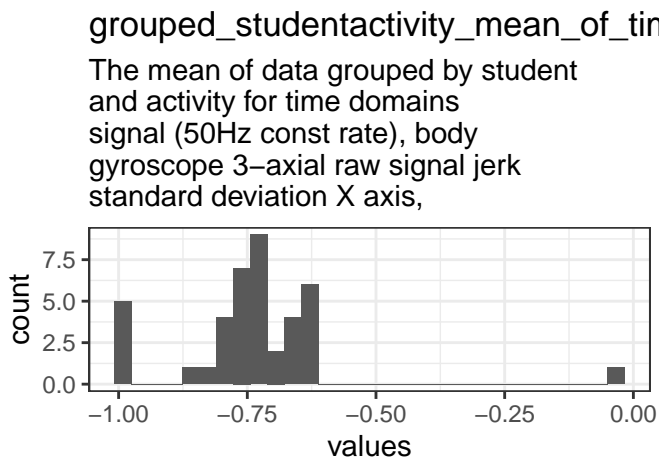
grouped_studentactivity_mean_of_time

The mean of data grouped by
student and activity for time
domains signal (50Hz const rate),
body gyroscope 3–axial raw signal
euclidean norm magnitude mean

Figure 39: Distribution of values for grouped_studentactivity_mean_of_timeof_body_gyro_magn_mean

Distribution   0 missing values.

Summary statistics

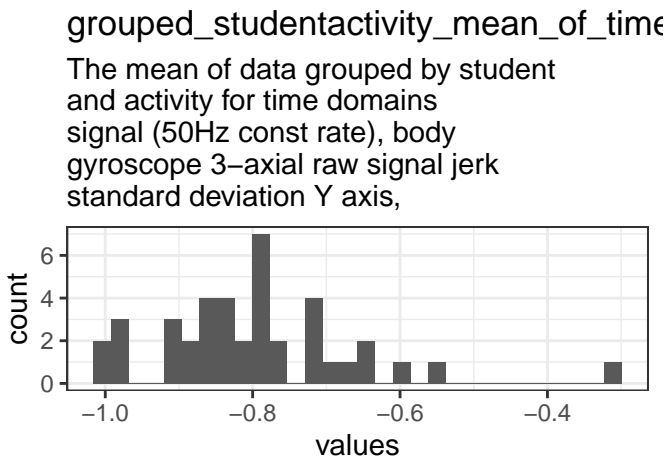| name	label	data_type	n_missing	complete	min	median	max	mean	sd	hist
grouped_studenta...	The mean of data grouped by student and activity for time domains signal (50Hz const rate), body gyroscope	...gyro_magn_mean numeric	1	-	-	-	0.98 0.62 0.18 0.627	0.1698951 1788		

grouped_studentactivity_mean_of_time

The mean of data grouped by
student and activity for time
domains signal (50Hz const rate),
body gyroscope 3–axial raw signal
euclidean norm magnitude standard
deviation

Figure 40: Distribution of values for grouped_studentactivity_mean_of_timeof_body_gyro_magn_std

Summary statistics

name	label	data_type	n_missing	complete	min	median	max	mean	sd	hist
grouped_studentactivity_mean_of_timeof_body_gyro_magn_std	The mean of data grouped by student and activity for time domains signal (50Hz const rate), body gyroscope 3-axial raw signal euclidean norm magnitude standard deviation	numeric	0	1	- 0.98	- 0.68	- 0.2	- 0.6787973	0.1555972	

grouped_studentactivity_mean_of_timeof_body_gyro_jerk_magn_mean

The mean of data grouped by student and activity for time domains signal (50Hz const rate), body gyroscope
3-axial raw signal jerk euclidean norm magnitude mean

grouped_studentactivity_mean_of_tin

The mean of data grouped by student
and activity for time domains
signal (50Hz const rate), body
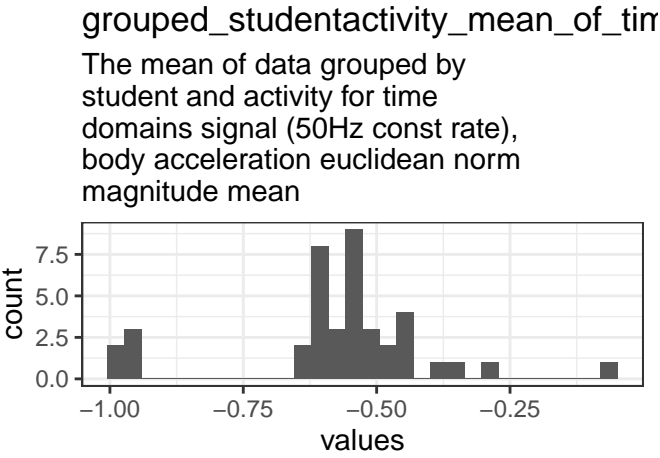gyroscope 3–axial raw signal jerk
euclidean norm magnitude mean
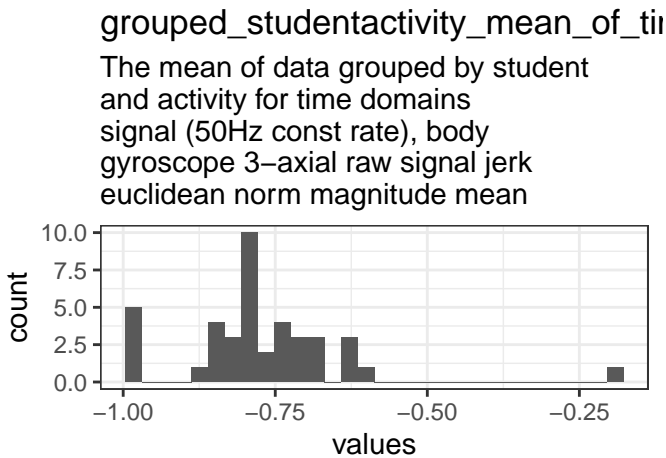
Figure 41: Distribution of values for grouped_studentactivity_mean_of_timeof_body_gyro_jerk_magn_mean

Distribution   0 missing values.

Summary statistics

name	label	data_type	n_missing	complete	min	median	max	mean	sd	hist
grouped_studentactivity_mean_of_timeof_body_gyro_jerk_magn_mean	The mean of data time of body student jerk norm magn mean								0.1370686	

grouped_studentactivity_mean_of_tim

The mean of data grouped by student
and activity for time domains
signal (50Hz const rate), body
gyroscope 3–axial raw signal jerk
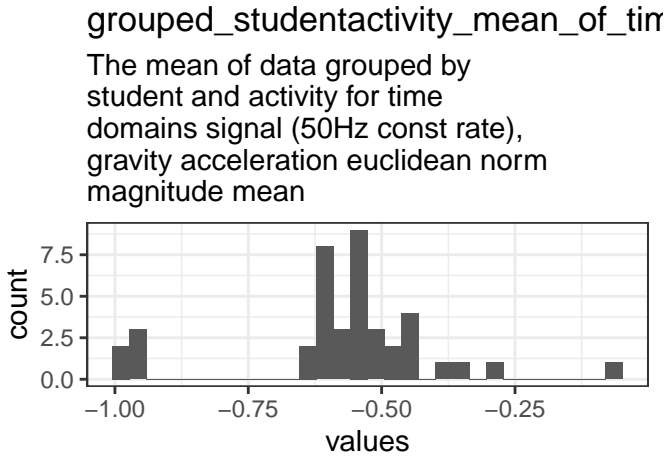euclidean norm magnitude standard
deviation

Figure 42: Distribution of values for grouped_studentactivity_mean_of_timeof_body_gyro_jerk_magn_std

Distribution   0 missing values.

Summary statistics

name	label	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist
grouped_studenta...	The mean of data grouped by student and activity for time domains signal (50Hz const rate), body gyroscope 3-axial raw signal jerk euclidean norm magnitude standard deviation	body_gyro_jerk_magn_std	1	-	-	-	-	0.1346049 0.99 0.8 0.24 0.7867377		

grouped_studentactivity_mean_of_frequ_body_accel_mean_x

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration mean X axis,

grouped_studentactivity_mean_of_fre

The mean of data grouped by student
and activity for fast fourier
tranform frequecy signal, body
acceleration mean X axis,

Figure 43: Distribution of values for grouped_studentactivity_mean_of_frequ_body_accel_mean_x

Distribution   0 missing values.

Summary statistics

grouped_studentactivity_mean_of_fr

The mean of data grouped by student
and activity for fast fourier
tranform frequecy signal, body
acceleration mean Y axis,

Figure 44: Distribution of values for grouped_studentactivity_mean_of_frequ_body_accel_mean_y

Distribution   0 missing values.

Summary statistics

name	label	data_type	missing	complete	n	min	median	max	mean	sd	hist
grouped_studentact...	The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration mean Y axis,	numeric	0	1	- 0.98	- 0.56	0.1	0.5558734	0.2049182	

grouped_studentactivity_mean_of_frequ_body_accel_mean_z

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration mean Z axis,

grouped_studentactivity_mean_of_freq

The mean of data grouped by student
and activity for fast fourier
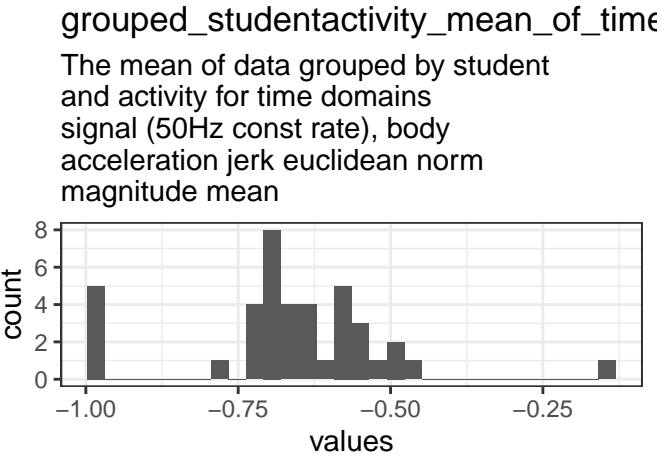tranform frequecy signal, body
acceleration mean Z axis,

Figure 45: Distribution of values for grouped_studentactivity_mean_of_frequ_body_accel_mean_z

34

Distribution 0 missing values.

Summary statistics

name	label	data_type	missing	complete	n	min	mean	median	max	mean	sd	hist
grouped_studentactivity_mean_of_frequ_body_accel_mean_z	The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration mean Z axis,	numeric	0	1	-	-	-	0.98	0.69	0.27	-	0.1514694 0.6907446

grouped_studentactivity_mean_of_frequ_body_accel_std_x

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration standard deviation X axis,

grouped_studentactivity_mean_of_freq

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration standard deviation X axis,

Figure 46: Distribution of values for grouped_studentactivity_mean_of_frequ_body_accel_std_x

Distribution 0 missing values.

Summary statistics

name	label	data_type	missing	complete	n	min	mean	median	max	mean	sd	hist
grouped_studentactivity_mean_of_frequ_body_accel_std_x	The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration standard deviation X axis,	numeric	0	1	-	-	-	0.99	0.62	0.13	-	0.1703561 0.6241736

grouped_studentactivity_mean_of_frequ_body_accel_std_y

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration standard deviation Y axis,

grouped_studentactivity_mean_of_freq

The mean of data grouped by student
and activity for fast fourier
tranform frequecy signal, body
acceleration standard deviation Y
axis,

Figure 47: Distribution of values for grouped_studentactivity_mean_of_frequ_body_accel_std_y

Distribution   0 missing values.

Summary statistics

name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studenta...	The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration standard deviation Y axis,	numeric	0	1	-0.97	-0.54	0.059	-0.5491777	0.2021521	

grouped_studentactivity_mean_of_frequ_body_accel_std_z

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration standard deviation Z axis,

grouped_studentactivity_mean_of_freq

The mean of data grouped by student
and activity for fast fourier
tranform frequecy signal, body
acceleration standard deviation Z
axis,

Figure 48: Distribution of values for grouped_studentactivity_mean_of_frequ_body_accel_std_z

Distribution   0 missing values.

Summary statistics

grouped_studentactivity_mean_of_fr

The mean of data grouped by student
and activity for fast fourier
tranform frequecy signal, body
acceleration mean freq X axis,

Figure 49: Distribution of values for grouped_studentactivity_mean_of_frequ_body_accel_mean_freq_x

Distribution   0 missing values.

Summary statistics

name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentacti...	The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration mean freq X axis,	numeric()	0	1	-0.35	-0.22	0.008	-0.204185	0.0829355	

grouped_studentactivity_mean_of_frequ_body_accel_mean_freq_y

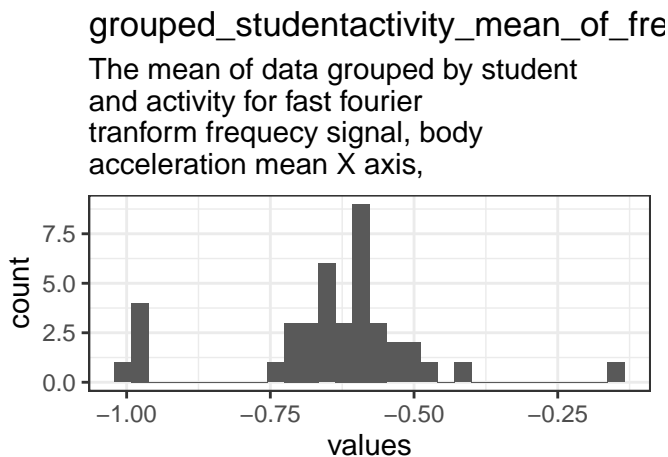The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration mean freq Y axis,

grouped_studentactivity_mean_of_freq

The mean of data grouped by student
and activity for fast fourier
tranform frequecy signal, body
acceleration mean freq Y axis,

Figure 50: Distribution of values for grouped_studentactivity_mean_of_frequ_body_accel_mean_freq_y

Distribution   0 missing values.

Summary statistics

Figure 51: Distribution of values for grouped_studentactivity_mean_of_frequ_body_accel_mean_freq_z
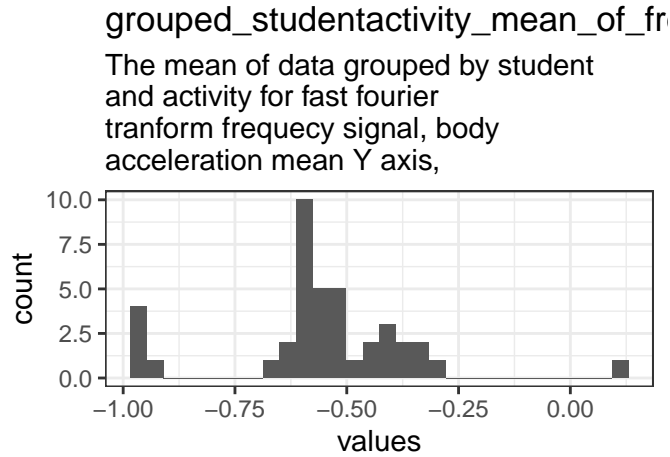
Distribution   0 missing values.

Summary statistics

name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentact	The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration mean freq Z axis,	numeric	1	- 0.14	0.052	0.28	0.055	0.068	0.0842046	

grouped_studentactivity_mean_of_frequ_body_accel_jerk_mean_x

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration jerk mean X axis,
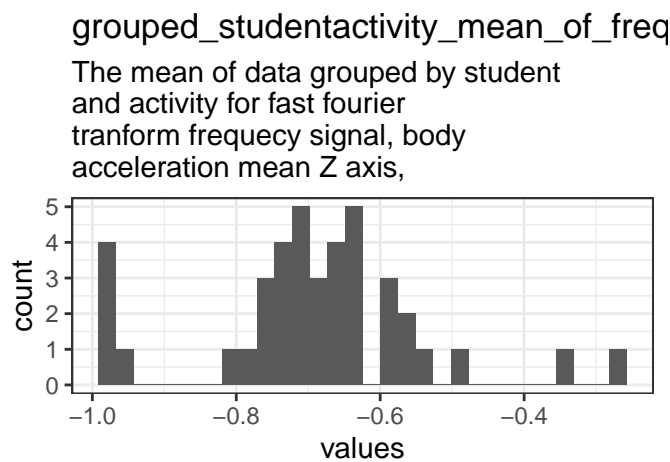

Figure 52: Distribution of values for grouped_studentactivity_mean_of_frequ_body_accel_jerk_mean_x

Distribution   0 missing values.

Summary statistics

grouped_studentactivity_mean_of_freq

The mean of data grouped by student
and activity for fast fourier
tranform frequecy signal, body
acceleration jerk mean Y axis,

Figure 53: Distribution of values for grouped_studentactivity_mean_of_frequ_body_accel_jerk_mean_y

Distribution   0 missing values.

Summary statistics

name	label	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentactivity_mean_of_frequ_body_accel_jerk_mean_y	The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration jerk mean Y axis,	numeric	0	1	- 0.99	- 0.64	- 0.087	- 0.6414498	0.1741278	

grouped_studentactivity_mean_of_frequ_body_accel_jerk_mean_z

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration jerk mean Z axis,

grouped_studentactivity_mean_of_freq

The mean of data grouped by student
and activity for fast fourier
tranform frequecy signal, body
acceleration jerk mean Z axis,

Figure 54: Distribution of values for grouped_studentactivity_mean_of_frequ_body_accel_jerk_mean_z

Distribution   0 missing values.

Summary statistics

grouped_studentactivity_mean_of_freq

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration jerk standard deviation X axis,
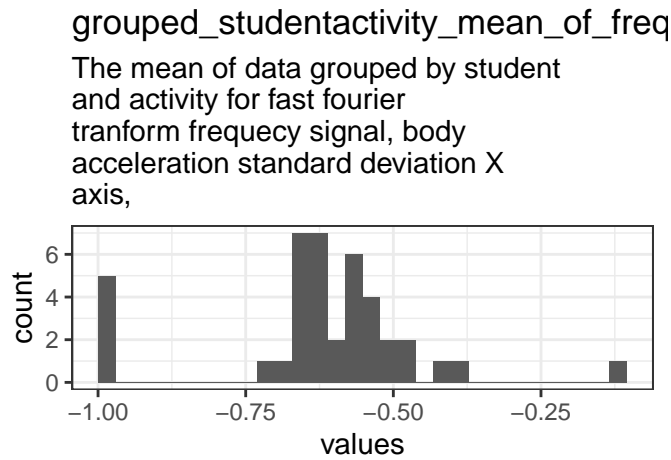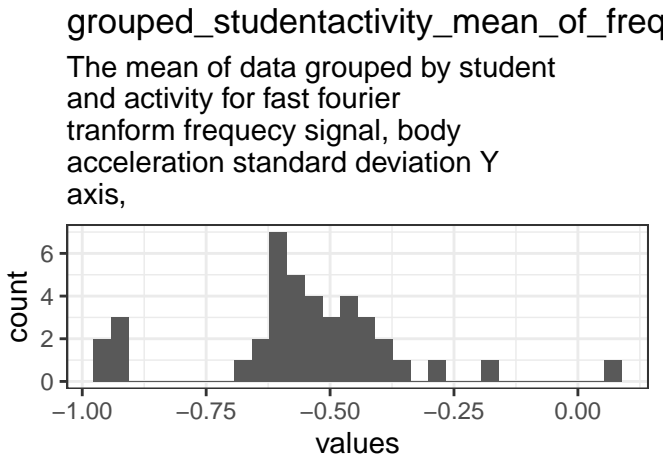

Figure 55: Distribution of values for grouped_studentactivity_mean_of_frequ_body_accel_jerk_std_x

Distribution 0 missing values.

Summary statistics

name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentac	The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration jerk standard deviation X axis,	numeric	0	1	-0.99	-0.65	-0.21	-0.6697384	0.1577809	

grouped_studentactivity_mean_of_frequ_body_accel_jerk_std_y

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration jerk standard deviation Y axis,
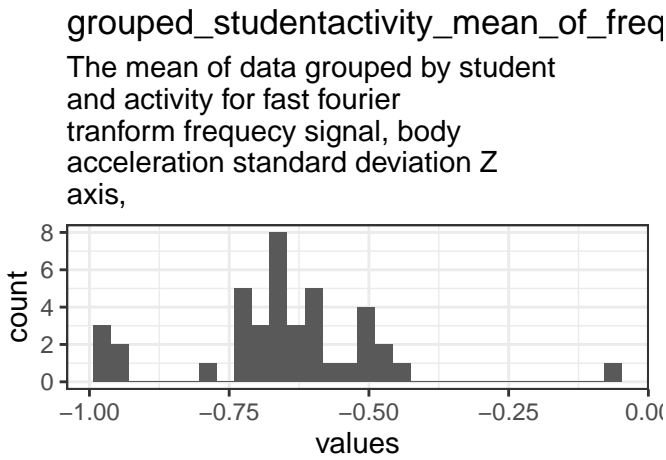
grouped_studentactivity_mean_of_fr

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration jerk standard deviation Y axis,
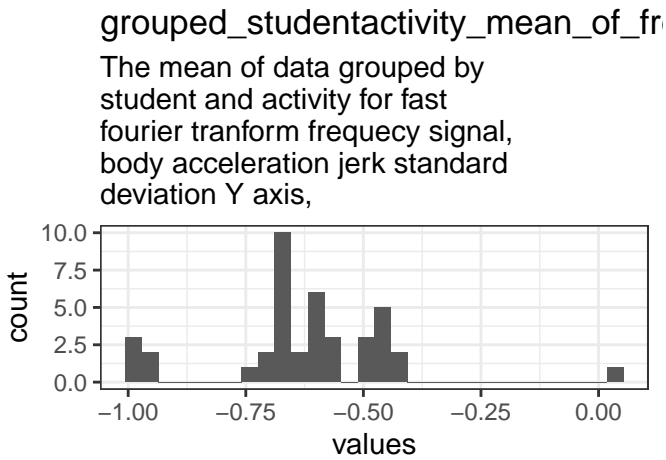
Figure 56: Distribution of values for grouped_studentactivity_mean_of_frequ_body_accel_jerk_std_y
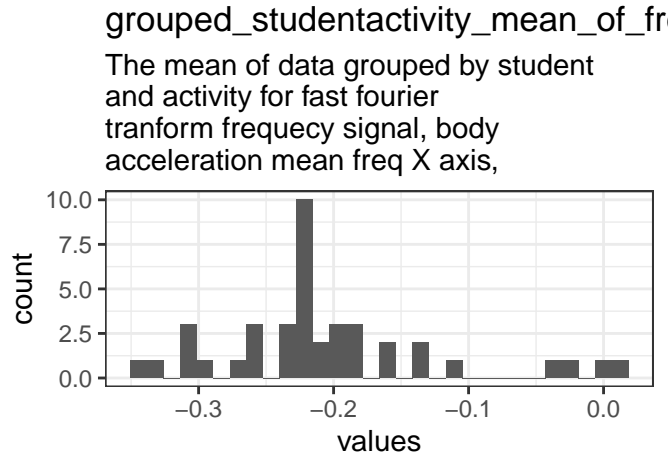
Distribution 0 missing values.

Summary statistics

grouped_studentactivity_mean_of_freq

The mean of data grouped by
student and activity for fast
fourier tranform frequecy signal,
body acceleration jerk standard
deviation Z axis,

Figure 57: Distribution of values for grouped_studentactivity_mean_of_frequ_body_accel_jerk_std_z

Distribution 0 missing values.

Summary statistics

name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentac...	The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration jerk standard deviation Z axis,	numeric	0	1	-0.99	-0.8	-0.42	0.795403	0.1115195	

grouped_studentactivity_mean_of_frequ_body_accel_jerk_mean_freq_x

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration jerk mean freq X axis,
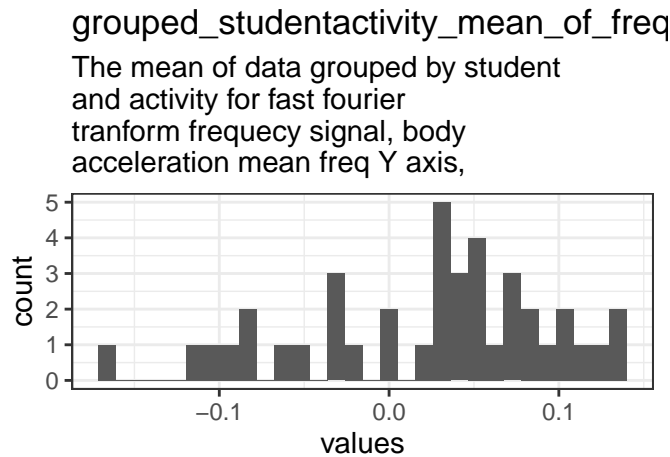
grouped_studentactivity_mean_of_freq

The mean of data grouped by student
and activity for fast fourier
tranform frequecy signal, body
acceleration jerk mean freq X axis,

Figure 58: Distribution of values for grouped_studentactivity_mean_of_frequ_body_accel_jerk_mean_freq_x
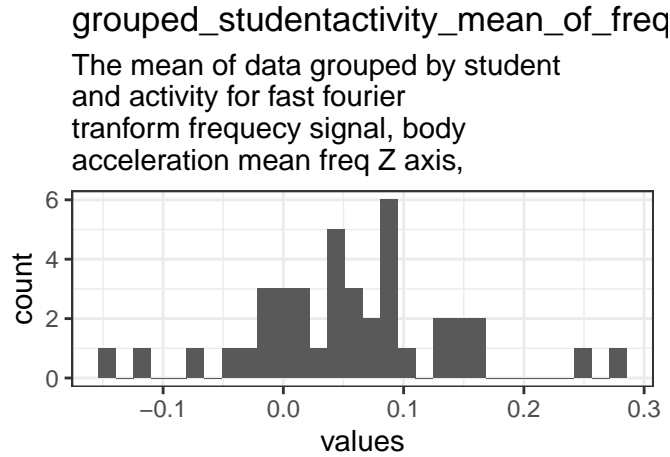
Distribution 0 missing values.

Summary statistics

grouped_studentactivity_mean_of_freq

The mean of data grouped by student
and activity for fast fourier
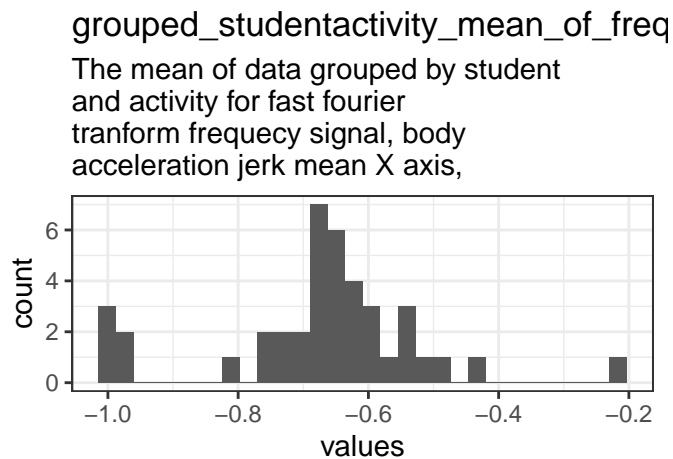tranform frequecy signal, body
acceleration jerk mean freq Y axis,

Figure 59: Distribution of values for grouped_studentactivity_mean_of_frequ_body_accel_jerk_mean_freq_y

Distribution   0 missing values.

Summary statistics

name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentacti...	The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration jerk mean freq Y axis,	body_accel_jerk_mean_freq_y numeric	0	- 0.4	- 0.2	0.088	- 0.2012586	0.0941605	

grouped_studentactivity_mean_of_frequ_body_accel_jerk_mean_freq_z

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration
jerk mean freq Z axis,

grouped_studentactivity_mean_of_freq

The mean of data grouped by student
and activity for fast fourier
tranform frequecy signal, body
acceleration jerk mean freq Z axis,

Figure 60: Distribution of values for grouped_studentactivity_mean_of_frequ_body_accel_jerk_mean_freq_z

Distribution   0 missing values.

Summary statistics
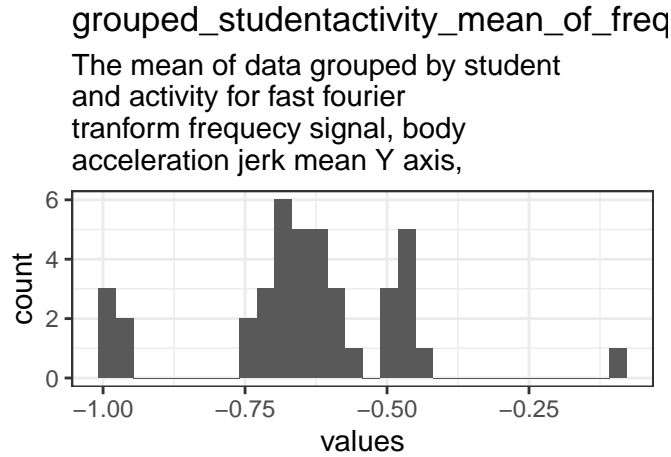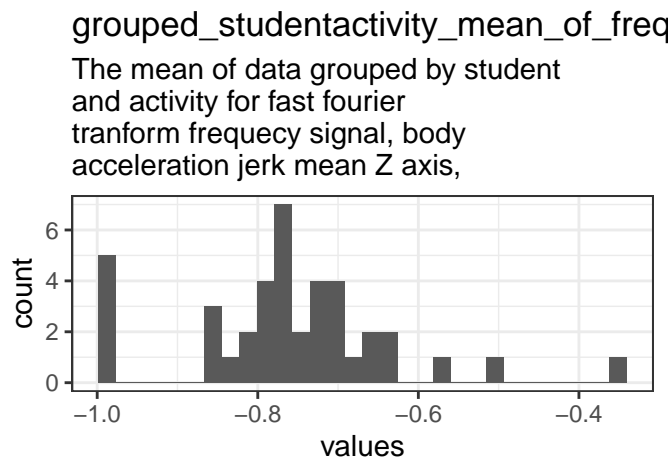
grouped_studentactivity_mean_of_freq

The mean of data grouped by student
and activity for fast fourier
tranform frequecy signal, body
gyroscope 3–axial raw signal mean X
axis,

Figure 61: Distribution of values for grouped_studentactivity_mean_of_frequ_body_gyro_mean_x

Distribution   0 missing values.

Summary statistics

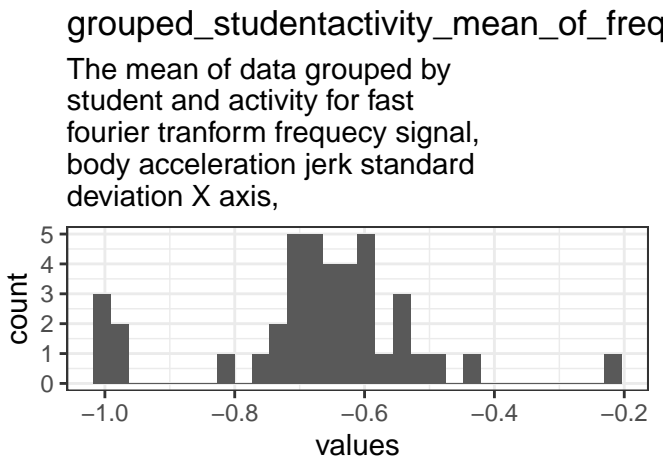| name	label	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist
grouped_studenta...	The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body gyroscope 3-axial raw signal mean X axis,	numeric	0	1	-0.99	-0.67	-0.079	-0.6839877	0.1554216	

grouped__studentactivity__mean__of__frequ__body__gyro__mean__y

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body gyroscope 3-axial raw signal mean Y axis,

grouped_studentactivity_mean_of_freq

The mean of data grouped by student
and activity for fast fourier
tranform frequecy signal, body
gyroscope 3–axial raw signal mean Y
axis,

Figure 62: Distribution of values for grouped_studentactivity_mean_of_frequ_body_gyro_mean_y

Distribution   0 missing values.

Summary statistics

grouped_studentactivity_mean_of_freq

The mean of data grouped by student
and activity for fast fourier
tranform frequecy signal, body
gyroscope 3–axial raw signal mean Z
axis,

Figure 63: Distribution of values for grouped_studentactivity_mean_of_frequ_body_gyro_mean_z

Distribution   0 missing values.

Summary statistics

name	label	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist
grouped_studenta…	The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body gyroscope 3-axial raw signal mean Z axis,	numeric	0	1	- 0.99	- 0.67	- 0.082	- 0.6579563	0.1756924	

grouped_studentactivity_mean_of_frequ_body_gyro_std_x

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body gyroscope 3-axial raw signal standard deviation X axis,

grouped_studentactivity_mean_of_freq

The mean of data grouped by
student and activity for fast
fourier tranform frequecy signal,
body gyroscope 3–axial raw signal
standard deviation X axis,
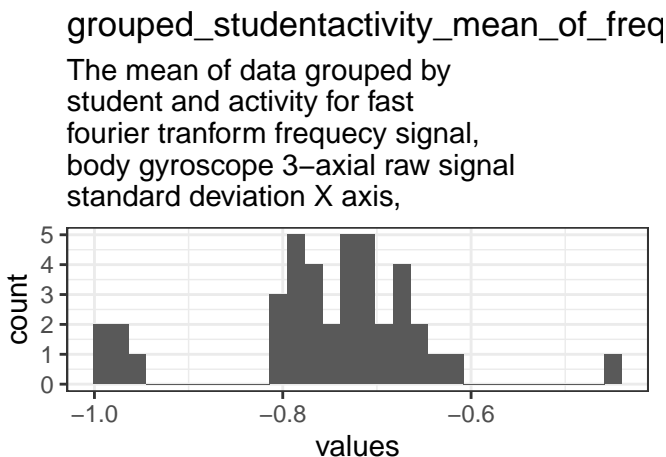
Figure 64: Distribution of values for grouped_studentactivity_mean_of_frequ_body_gyro_std_x

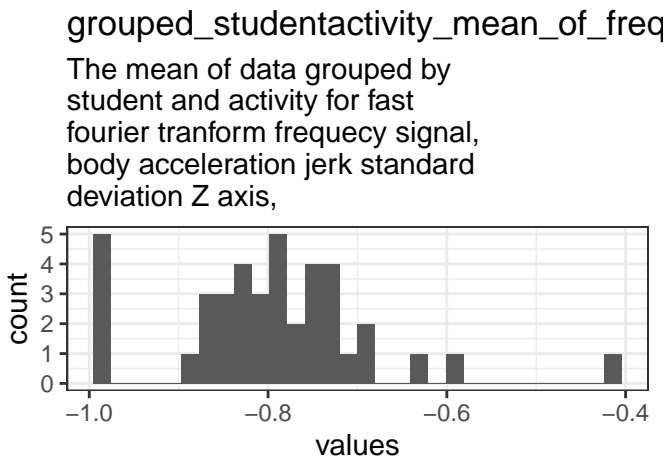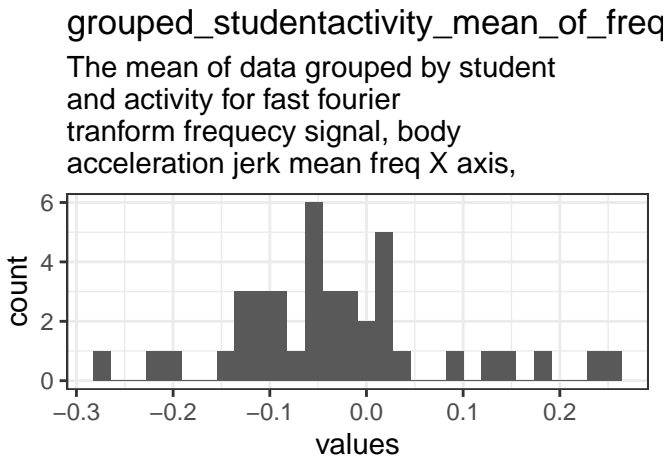**Distribution**   0 missing values.

Summary statistics

grouped_studentactivity_mean_of_freq

The mean of data grouped by
student and activity for fast
fourier tranform frequecy signal,
body gyroscope 3–axial raw signal
standard deviation Y axis,

Figure 65: Distribution of values for grouped_studentactivity_mean_of_frequ_body_gyro_std_y

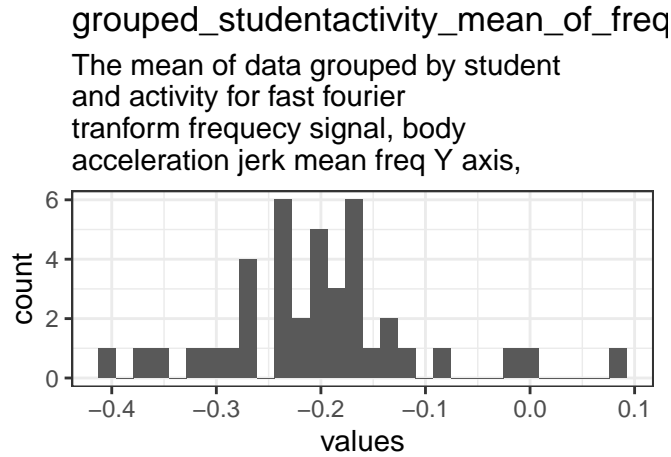**Distribution**   0 missing values.

Summary statistics

name	label	data_type	n_missing	complete	min	median	max	mean	sd	hist
grouped_student...	The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body gyroscope 3-axial raw signal standard deviation Y axis,	numeric	0	1	-0.98	-0.73	-0.15	-0.6953373	0.1786708	

grouped_studentactivity_mean_of_frequ_body_gyro_std_z

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body gyroscope 3-axial raw signal standard deviation Z axis,

grouped_studentactivity_mean_of_freq

The mean of data grouped by
student and activity for fast
fourier tranform frequecy signal,
body gyroscope 3–axial raw signal
standard deviation Z axis,
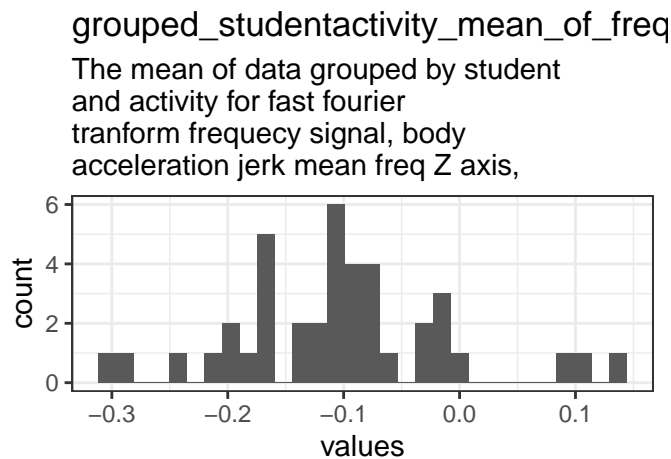

Figure 66: Distribution of values for grouped_studentactivity_mean_of_frequ_body_gyro_std_z

Distribution   0 missing values.

Summary statistics

grouped_studentactivity_mean_of_freq

The mean of data grouped by student
and activity for fast fourier
tranform frequecy signal, body
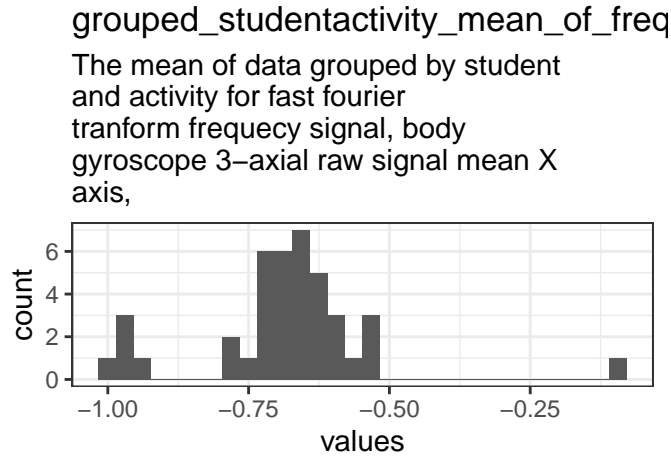gyroscope 3–axial raw signal mean
freq X axis,

Figure 67: Distribution of values for grouped_studentactivity_mean_of_frequ_body_gyro_mean_freq_x

Distribution   0 missing values.

Summary statistics

name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentac...	The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body gyroscope 3-axial raw signal mean freq X axis,	numeric	0	1	- 0.31	- 0.1	0.12	- 0.1009106	0.083553	

grouped_studentactivity_mean_of_frequ_body_gyro_mean_freq_y

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body gyroscope 3-axial raw signal mean freq Y axis,

grouped_studentactivity_mean_of_freq

The mean of data grouped by student
and activity for fast fourier
tranform frequecy signal, body
gyroscope 3–axial raw signal mean
freq Y axis,
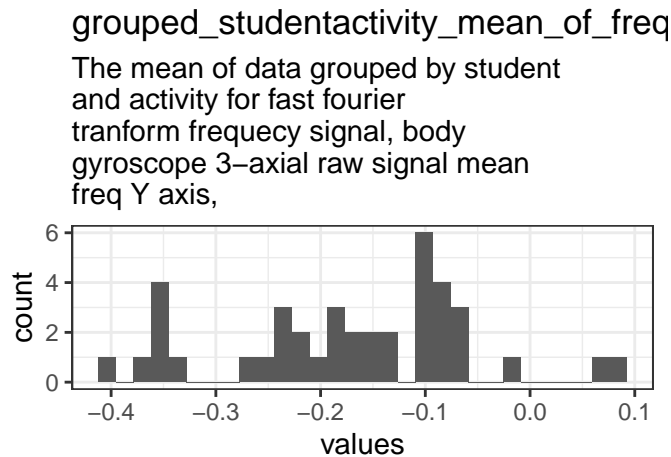
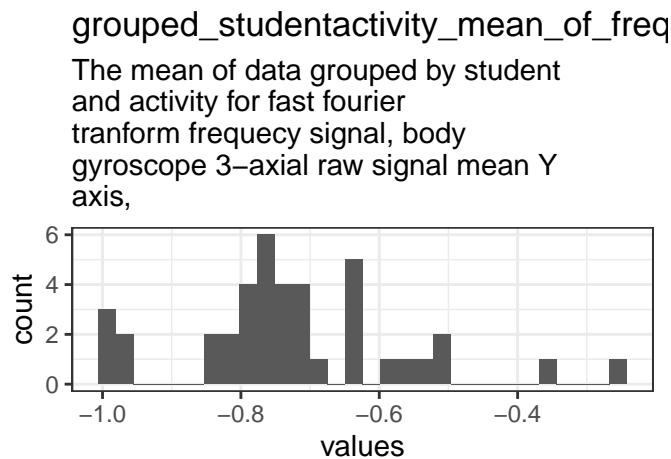Figure 68: Distribution of values for grouped_studentactivity_mean_of_frequ_body_gyro_mean_freq_y

Distribution   0 missing values.

Summary statistics

grouped_studentactivity_mean_of_freq

The mean of data grouped by student
and activity for fast fourier
tranform frequecy signal, body
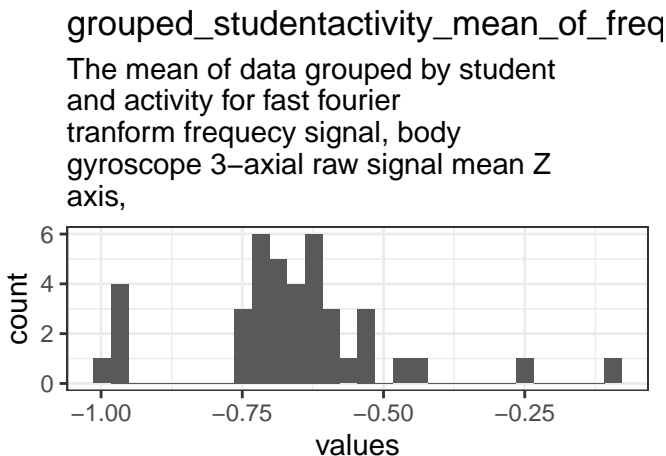gyroscope 3–axial raw signal mean
freq Z axis,
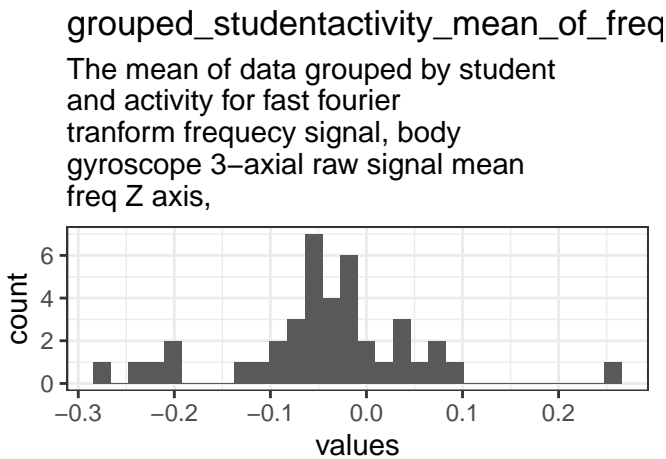
Figure 69: Distribution of values for grouped_studentactivity_mean_of_frequ_body_gyro_mean_freq_z

Distribution   0 missing values.

Summary statistics

| name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentac	The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body gyroscope 3-axial raw signal mean freq Z axis,	numeric	0	1	-0.27	0.044	0.27	-	0.0965585 0.0426206	

grouped_studentactivity_mean_of_frequ_body_accel_magn_mean

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration euclidean norm magnitude mean

grouped_studentactivity_mean_of_freq

The mean of data grouped by
student and activity for fast
fourier tranform frequecy signal,
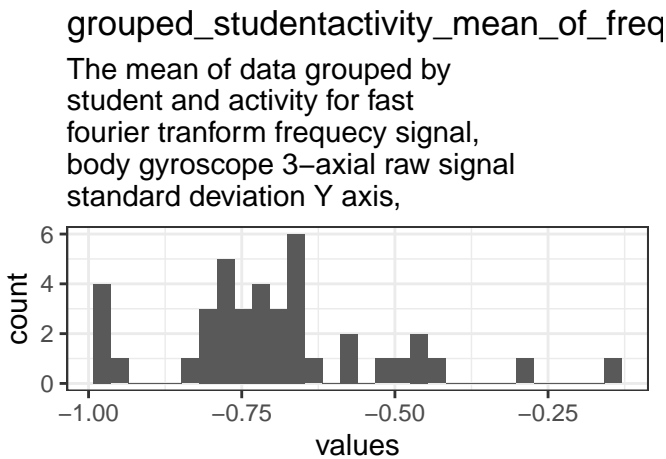body acceleration euclidean norm
magnitude mean

Figure 70: Distribution of values for grouped_studentactivity_mean_of_frequ_body_accel_magn_mean

Distribution   0 missing values.

Summary statistics

grouped_studentactivity_mean_of_freq

The mean of data grouped by
student and activity for fast
fourier tranform frequecy signal,
body acceleration euclidean norm
magnitude standard deviation

Figure 71: Distribution of values for grouped_studentactivity_mean_of_frequ_body_accel_magn_std

Distribution   0 missing values.

Summary statistics

name	label	data ntype	missing complete	n mean	median	max	mean	sd	hist
grouped_studenta...	The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration euclidean norm magnitude standard deviation	activity_magn_std	numeric 0	1	- 0.97	- 0.67	- 0.27	- 0.67	0.136277 0.79137	

grouped_studentactivity_mean_of_frequ_body_accel_magn_mean_freq

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body acceleration euclidean norm magnitude mean freq

grouped_studentactivity_mean_of_freq

The mean of data grouped by
student and activity for fast
fourier tranform frequecy signal,
body acceleration euclidean norm
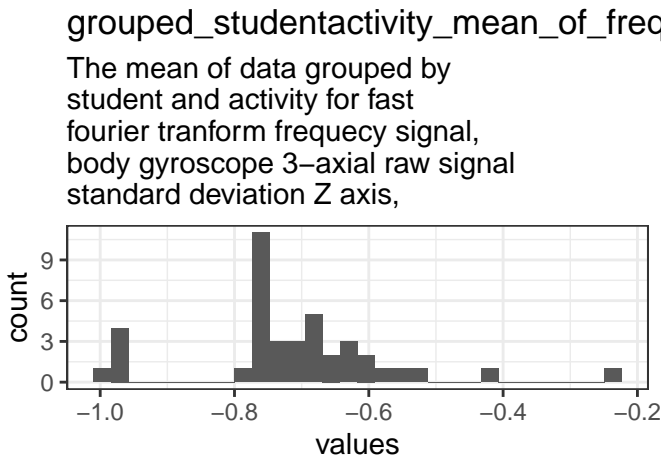magnitude mean freq
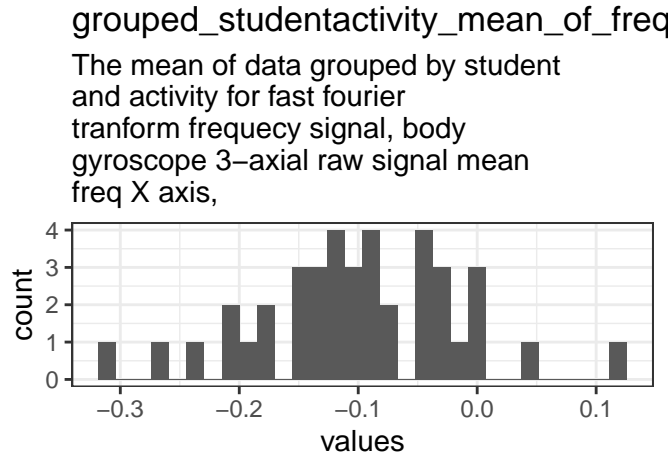

Figure 72: Distribution of values for grouped_studentactivity_mean_of_frequ_body_accel_magn_mean_freq

Distribution   0 missing values.

Summary statistics

grouped_studentactivity_mean_of_freq

The mean of data grouped by student
and activity for fast fourier
tranform frequecy signal, body to
body acceleration jerk euclidean
norm magnitude mean

Figure 73: Distribution of values for grouped_studentactivity_mean_of_frequ_body_body_accel_jerk_magn_mean

Distribution 0 missing values.

Summary statistics

name	label	data_ntype	missing	complete	n	mean	median	max	mean	sd	hist
grouped_studentactivity_mean_of_frequ_body_body_accel_jerk_magn_mean	The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body to body acceleration jerk euclidean norm magnitude mean	0	-	-	0.99	0.62	0.076	0.63	0.17595 0.6368899

grouped_studentactivity_mean_of_frequ_body_body_accel_jerk_magn_std

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body to body acceleration jerk euclidean norm magnitude standard deviation

Distribution 0 missing values.

Summary statistics

name	label	data_ntype	missing	complete	n	median	max	mean	sd	hist
grouped_studentactivity_mean_of_frequ_body_body_accel_jerk_magn_std	The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body to body acceleration jerk euclidean norm magnitude standard deviation	0	-	-	-	0.99	0.64	0.11	0.6550883	0.1664638

grouped_studentactivity_mean_of_freq

The mean of data grouped by student
and activity for fast fourier
tranform frequecy signal, body to
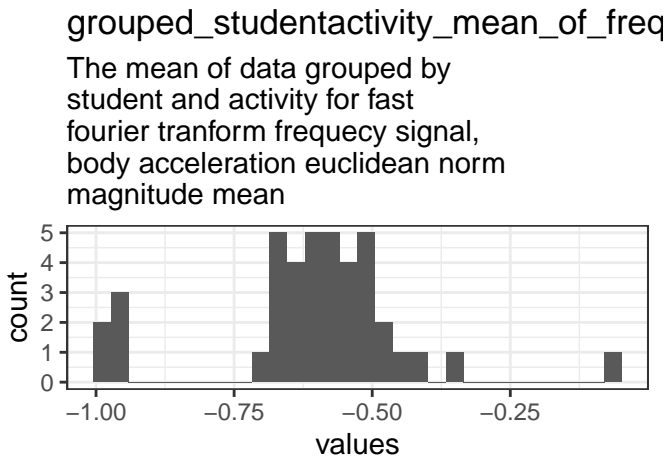body acceleration jerk euclidean
norm magnitude standard deviation

Figure 74: Distribution of values for grouped_studentactivity_mean_of_frequ_body_body_accel_jerk_magn_std

grouped_studentactivity_mean_of_frequ_body_body_accel_jerk_magn_mean_freq

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body to body
acceleration jerk euclidean norm magnitude mean freq

grouped_studentactivity_mean_of_freq

The mean of data grouped by student
and activity for fast fourier
tranform frequecy signal, body to
body acceleration jerk euclidean
norm magnitude mean freq
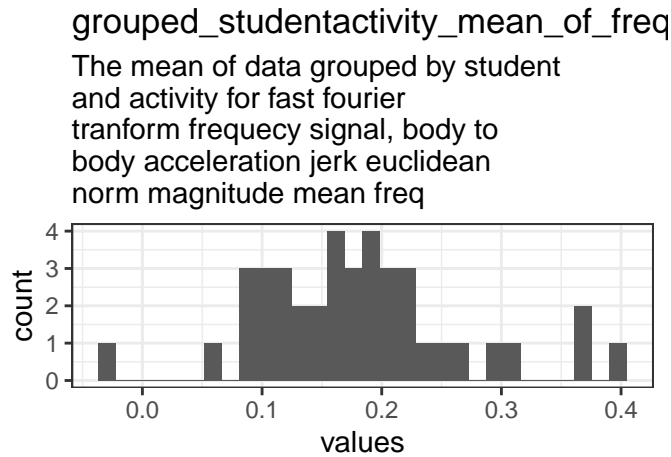
Figure 75: Distribution of values for grouped_studentactivity_mean_of_frequ_body_body_accel_jerk_magn_mean_freq
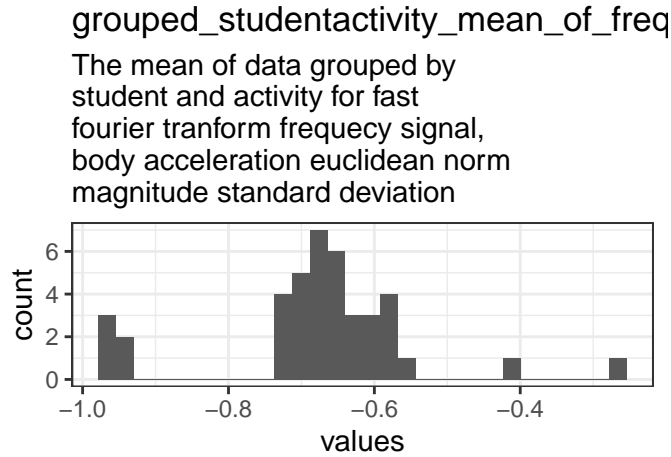
Distribution 0 missing values.

Summary statistics

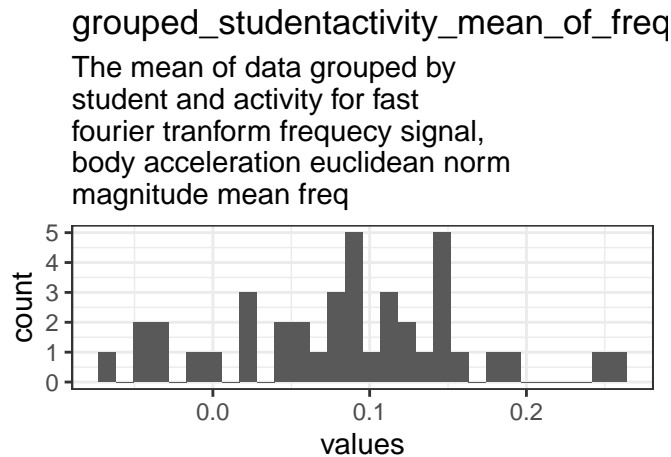| name	label	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentactivity...	The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body to body acceleration jerk euclidean norm magnitude mean freq	accel_jerk_magn_mean_freq	0	1	0.18	0.4	0.181	0.024	0.25863648	

grouped__studentactivity__mean__of__frequ__body__body__gyro__magn__mean

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body to body gyroscope 3-axial raw signal euclidean norm magnitude mean

grouped_studentactivity_mean_of_fre

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body to body gyroscope 3–axial raw signal euclidean norm magnitude mean

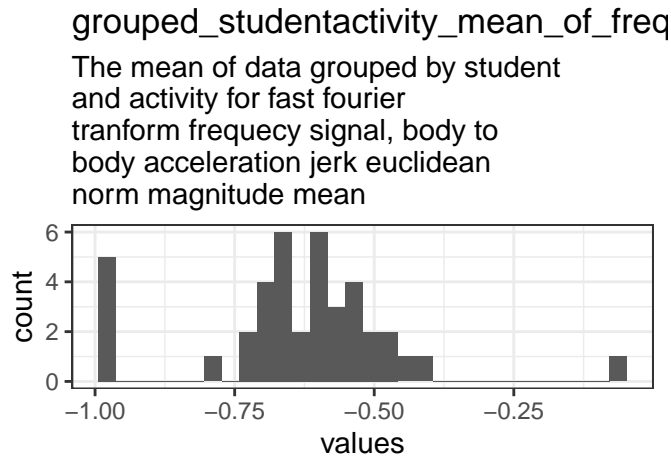Figure 76: Distribution of values for grouped_studentactivity_mean_of_frequ_body_body_gyro_magn_mean

Distribution   0 missing values.

Summary statistics

name	label	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentac...	The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body to body gyroscope 3-axial raw signal euclidean norm magnitude mean	gyro_magn_mean	0	1	-0.99	-0.73	0.16	-0.710	0.2797	0.1542651

grouped__studentactivity__mean__of__frequ__body__body__gyro__magn__std

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body to body gyroscope 3-axial raw signal euclidean norm magnitude standard deviation

Distribution   0 missing values.

grouped_studentactivity_mean_of_freq

The mean of data grouped by student
and activity for fast fourier
tranform frequecy signal, body to
body gyroscope 3–axial raw signal
euclidean norm magnitude standard
deviation

Figure 77: Distribution of values for grouped_studentactivity_mean_of_frequ_body_body_gyro_magn_std

Summary statistics

name	label	data_type	n	missing	complete	min	median	max	mean	sd	hist
grouped_studenta...	The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body to body gyroscope 3-axial raw signal euclidean norm magnitude standard deviation	..._body_body_gyro_magn_std	1	-	-	-	-	0.98	0.71	0.38	0.71	5579 0.1305885

grouped_studentactivity_mean_of_frequ_body_body_gyro_magn_mean_freq

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body to body
gyroscope 3-axial raw signal euclidean norm magnitude mean freq

grouped_studentactivity_mean_of_freq

The mean of data grouped by student
and activity for fast fourier
tranform frequecy signal, body to
body gyroscope 3–axial raw signal
euclidean norm magnitude mean freq

Figure 78: Distribution of values for grouped_studentactivity_mean_of_frequ_body_body_gyro_magn_mean_freq

Distribution 0 missing values.

Summary statistics

name	label	data_type	n	missing	complete	min	median	max	mean	sd	hist
grouped_studenta...	The mean of data grouped by student gyro ...mean_freq						0.29		0.1071721		

grouped_studentactivity_mean_of_freq

The mean of data grouped by student
and activity for fast fourier
tranform frequecy signal, body to
body gyroscope 3–axial raw signal
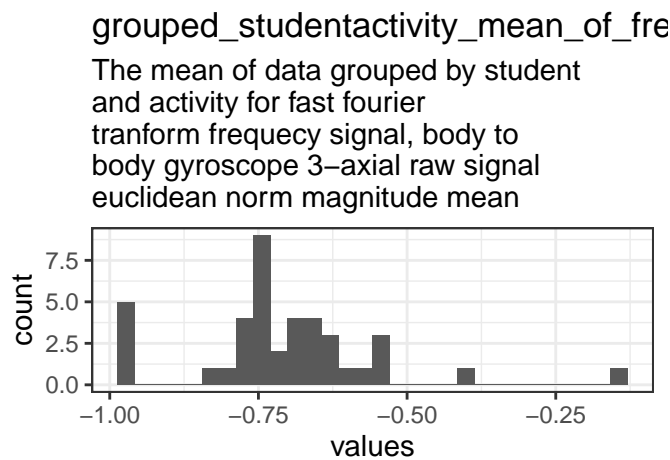jerk euclidean norm magnitude mean

Figure 79: Distribution of values for grouped_studentactivity_mean_of_frequ_body_body_gyro_jerk_magn_mean

Distribution   0 missing values.

Summary statistics

name	label	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentact	The mean of data grouped by student gyro_jerk_magn1_mean and activity for fast fourier tranform frequecy signal, body to body gyroscope 3-axial raw signal jerk euclidean norm magnitude mean	-	-	-	-0.99	-0.8	0.25	0.7885854	0.1326521	

grouped_studentactivity_mean_of_frequ_body_body_gyro_jerk_magn_std

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body to body gyroscope 3-axial raw signal jerk euclidean norm magnitude standard deviation
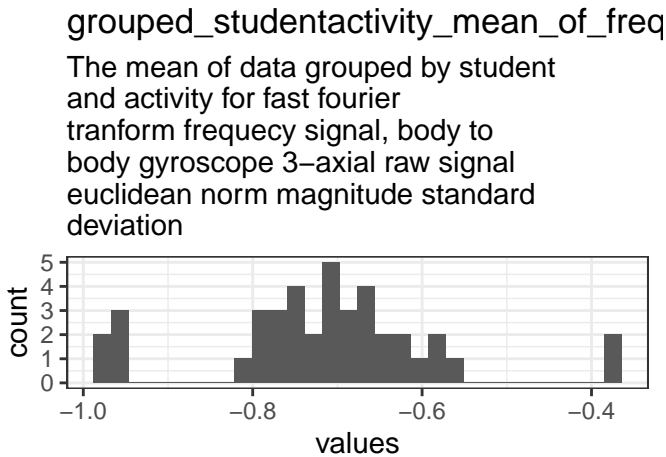

grouped_studentactivity_mean_of_freq

The mean of data grouped by student
and activity for fast fourier
tranform frequecy signal, body to
body gyroscope 3–axial raw signal
jerk euclidean norm magnitude
standard deviation
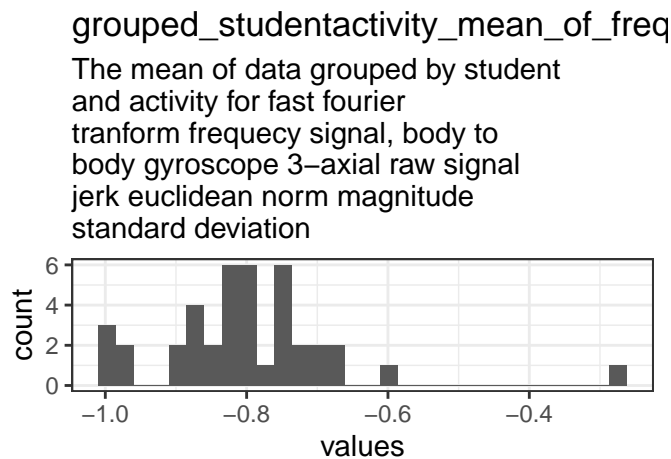
Figure 80: Distribution of values for grouped_studentactivity_mean_of_frequ_body_body_gyro_jerk_magn_std

Distribution   0 missing values.

Summary statistics

grouped_studentactivity_mean_of_frequ_body_body_gyro_jerk_magn_mean_freq

The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body to body gyroscope 3-axial raw signal jerk euclidean norm magnitude mean freq
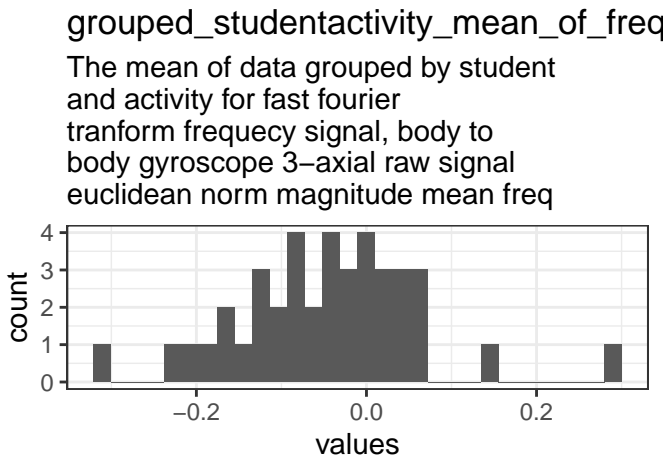
grouped_studentactivity_mean_of_freq

The mean of data grouped by student
and activity for fast fourier
tranform frequecy signal, body to
body gyroscope 3–axial raw signal
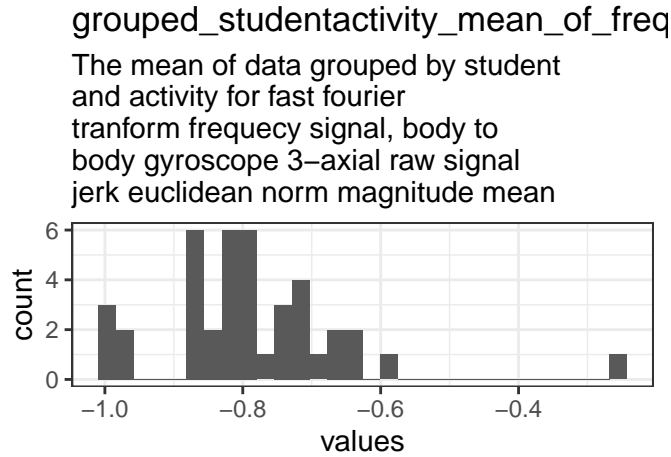jerk euclidean norm magnitude mean
freq
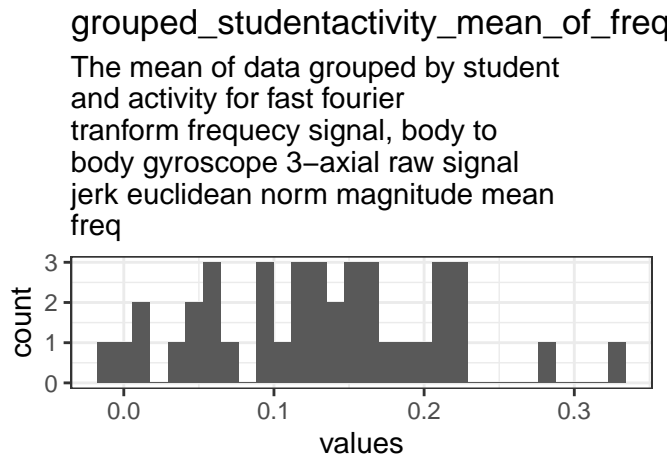
Figure 81: Distribution of values for grouped_studentactivity_mean_of_frequ_body_body_gyro_jerk_magn_mean_freq

Distribution   0 missing values.

Summary statistics

name	label	data_n type missing complete_rate median max mean sd	hist
grouped_studentacti...	The mean of data grouped by student and activity for fast fourier tranform frequecy signal, body to body gyroscope 3-axial raw signal jerk euclidean norm magnitude mean freq	numeric gyro_jerk_magn_1mean_freq 43 0.33 0.13 0.21 0.073794 0.008	

grouped_studentactivity_mean_of_angle_timeof_body_accel_mean_gravity

The mean of data grouped by student and activity for angle of time domains signal (50Hz const rate), body acceleration mean gravity

Distribution   0 missing values.

Summary statistics

grouped_studentactivity_mean_of_ang

The mean of data grouped by student
and activity for angle of time
domains signal (50Hz const rate),
body acceleration mean gravity
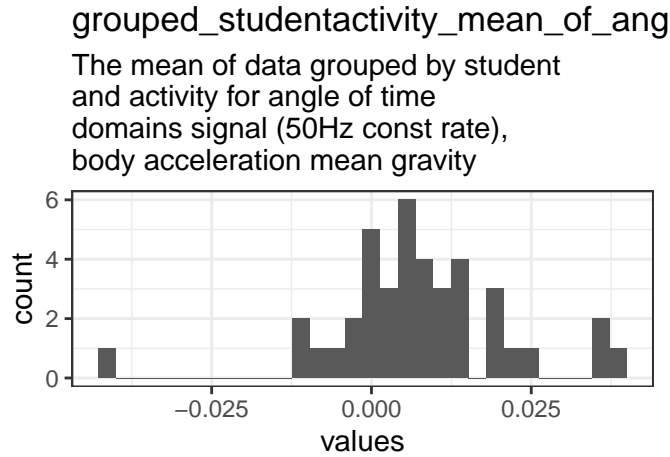
Figure 82: Distribution of values for grouped_studentactivity_mean_of_angle_timeof_body_accel_mean_gravity

name	label	data_type	missing	complete	n	min	median	max	mean	sd	hist
grouped_studentactivity	The mean of data grouped by student and activity for angle of time domains signal (50Hz const rate), body acceleration mean gravity	numerical	-			0.006	7.038	0.0072	27.96	0.042	482

grouped_studentactivity_mean_of_angle_timeof_body_accel_jerk_mean_gravity_mean

The mean of data grouped by student and activity for angle of time domains signal (50Hz const rate), body acceleration jerk mean gravity mean

grouped_studentactivity_mean_of_ang

The mean of data grouped by student
and activity for angle of time
domains signal (50Hz const rate),
body acceleration jerk mean gravity
mean

Figure 83: Distribution of values for grouped_studentactivity_mean_of_angle_timeof_body_accel_jerk_mean_gravity_m

Distribution   0 missing values.

Summary statistics

name	label	data_type	n	missing	complete	min	median	max	mean	sd	hist
grouped_studentactivity	The mean of data grouped by student and activity for angle of time domains signal (50Hz const	accel_jerk_mean_gravity	0.056	0.047	0.0032	23.82	0.045	71724			

grouped_studentactivity_mean_of_ang

The mean of data grouped by student
and activity for angle of time
domains signal (50Hz const rate),
body gyroscope 3–axial raw signal
mean gravity mean

Figure 84: Distribution of values for grouped_studentactivity_mean_of_angle_timeof_body_gyro_mean_gravity_mean

Summary statistics

name	label	data_type	ntype	missing	complete	n	mean	median	max	mean	sd	hist
grouped_studentacti...	The mean of data grouped by student and activity for angle of time domains signal (50Hz const rate), body gyroscope 3-axial raw signal mean gravity mean	numeric	gravity_mean	0.013	0.12	0.021	0.066	0.74	0.484675			

grouped_studentactivity_mean_of_angle_timeof_body_gyro_jerk_mean_gravity_mean

The mean of data grouped by student and activity for angle of time domains signal (50Hz const rate), body
gyroscope 3-axial raw signal jerk mean gravity mean

grouped_studentactivity_mean_of_ang

The mean of data grouped by student
and activity for angle of time
domains signal (50Hz const rate),
body gyroscope 3–axial raw signal
jerk mean gravity mean
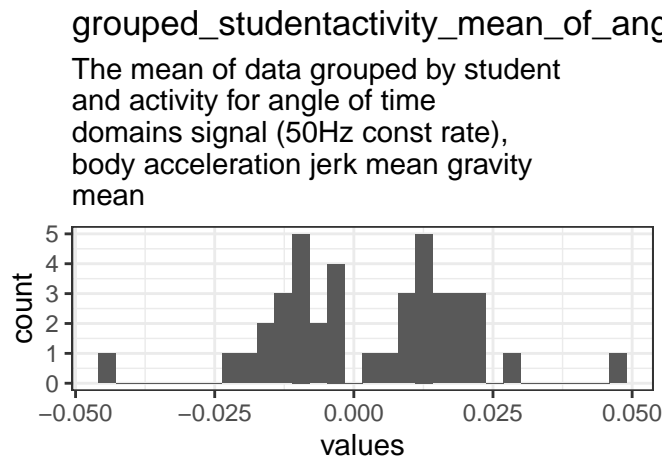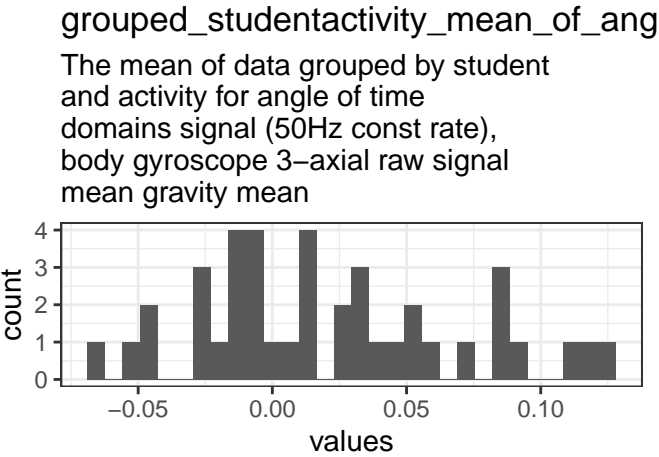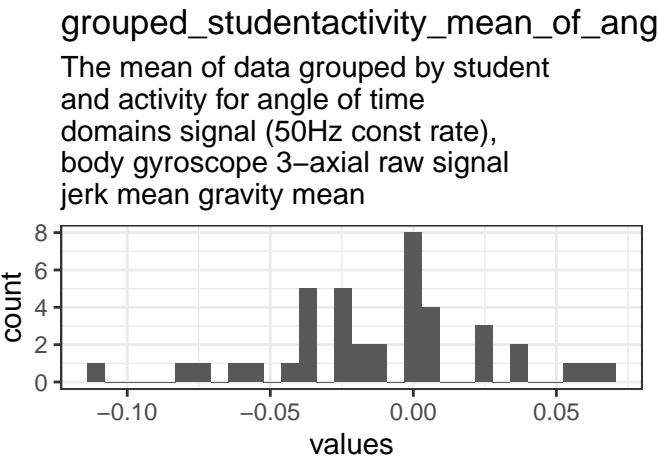

Figure 85: Distribution of values for grouped_studentactivity_mean_of_angle_timeof_body_gyro_jerk_mean_gravity_me

Distribution 0 missing values.

Summary statistics

name	label	data_type	ntype	missing	complete	n	mean	median	max	mean	sd	hist
grouped_studentacti...	The mean of data grouped by...											

grouped_studentactivity_mean_of_ang

The mean of data grouped by student
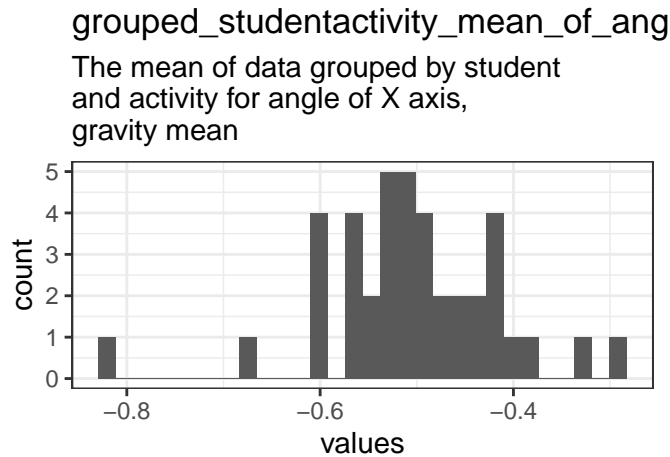and activity for angle of X axis,
gravity mean

Figure 86: Distribution of values for grouped_studentactivity_mean_of_angle_x_gravity_mean

Summary statistics

name	label	data_type	missing	complete_rate	min	median	max	mean	sd	hist
grouped_studentactivit...	The mean of data grouped by student and activity for angle of X axis, gravity mean	numeric	0	1	- 0.83	- 0.51	- 0.3	- 0.5065084	0.0921115	

Missingness report

Codebook table

JSON-LD metadata The following JSON-LD can be found by search engines, if you share this codebook publicly on the web.

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  "creator": "Robert de Lorimier",
  "citation": "Davide Anguita, Alessandro Ghio, Luca Oneto, Xavier Parra and Jorge L. Reyes-Ortiz. Huma
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57

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