Codebook for averages_by_subject_activity

Autogenerated data summary from dataMaid

Doron Fingold

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Averages by Subject and Activity

A tidy data set with the averages of each feature for each activity and each subject was created using `dplyr::group_by` and `dplyr::summrise` see **README.md** for more details. Here is a description of the data set that resulted.

Data report overview

The dataset examined has the following dimensions:

Feature	Result
Number of observations	180
Number of variables	68

Codebook summary table

Label	Variable	Class	# unique values	Missing	Description
	subject_id	integer	30	0.00 %	
	activity	factor	6	0.00 %	
	time_body_acc_mean_x	numeric	180	0.00 %	
	time_body_acc_mean_y	numeric	180	0.00 %	
	time_body_acc_mean_z	numeric	180	0.00 %	
	time_body_acc_std_x	numeric	180	0.00 %	
	time_body_acc_std_y	numeric	180	0.00 %	
	time_body_acc_std_z	numeric	180	0.00 %	
	time_gravity_acc_mean_x	numeric	180	0.00 %	
	time_gravity_acc_mean_y	numeric	180	0.00 %	
	time_gravity_acc_mean_z	numeric	180	0.00 %	
	time_gravity_acc_std_x	numeric	180	0.00 %	
	time_gravity_acc_std_y	numeric	180	0.00 %	
	time_gravity_acc_std_z	numeric	180	0.00 %	
	time_body_acc_jerk_mean_x	numeric	180	0.00 %	
	time_body_acc_jerk_mean_y	numeric	180	0.00 %	
	time_body_acc_jerk_mean_z	numeric	180	0.00 %	
	time_body_acc_jerk_std_x	numeric	180	0.00 %	
	time_body_acc_jerk_std_y	numeric	180	0.00 %	

Label	Variable	Class	# unique values	Missing	Description
	time_body_acc_jerk_std_z	numeric	180	0.00 %	
	time_body_gyro_mean_x	numeric	180	0.00 %	
	time_body_gyro_mean_y	numeric	180	0.00 %	
	time_body_gyro_mean_z	numeric	180	0.00 %	
	time_body_gyro_std_x	numeric	180	0.00 %	
	time_body_gyro_std_y	numeric	180	0.00 %	
	time_body_gyro_std_z	numeric	180	0.00 %	
	time_body_gyro_jerk_mean_x	numeric	180	0.00 %	
	time_body_gyro_jerk_mean_y	numeric	180	0.00 %	
	time_body_gyro_jerk_mean_z	numeric	180	0.00 %	
	time_body_gyro_jerk_std_x	numeric	180	0.00 %	
	time_body_gyro_jerk_std_y	numeric	180	0.00 %	
	time_body_gyro_jerk_std_z	numeric	180	0.00 %	
	time_body_acc_mag_mean	numeric	180	0.00 %	
	time_body_acc_mag_std	numeric	180	0.00 %	
	time_gravity_acc_mag_mean	numeric	180	0.00 %	
	time_gravity_acc_mag_std	numeric	180	0.00 %	
	time_body_acc_jerk_mag_mean	numeric	180	0.00 %	
	time_body_acc_jerk_mag_std	numeric	180	0.00 %	
	time_body_gyro_mag_mean	numeric	180	0.00 %	
	time_body_gyro_mag_std	numeric	180	0.00 %	
	time_body_gyro_jerk_mag_mean	numeric	180	0.00 %	
	time_body_gyro_jerk_mag_std	numeric	180	0.00 %	
	freq_body_acc_mean_x	numeric	180	0.00 %	
	freq_body_acc_mean_y	numeric	180	0.00 %	
	freq_body_acc_mean_z	numeric	180	0.00 %	
	freq_body_acc_std_x	numeric	180	0.00 %	
	freq_body_acc_std_y	numeric	180	0.00 %	
	freq_body_acc_std_z	numeric	180	0.00 %	
	freq_body_acc_jerk_mean_x	numeric	180	0.00 %	
	freq_body_acc_jerk_mean_y	numeric	180	0.00 %	
	freq_body_acc_jerk_mean_z	numeric	180	0.00 %	
	freq_body_acc_jerk_std_x	numeric	180	0.00 %	
	freq_body_acc_jerk_std_y	numeric	180	0.00 %	
	freq_body_acc_jerk_std_z	numeric	180	0.00 %	
	freq_body_gyro_mean_x	numeric	180	0.00 %	
	freq_body_gyro_mean_y	numeric	180	0.00 %	
	freq_body_gyro_mean_z	numeric	180	0.00 %	
	freq_body_gyro_std_x	numeric	180	0.00 %	
	freq_body_gyro_std_y	numeric	180	0.00 %	
	freq_body_gyro_std_z	numeric	180	0.00 %	
	freq_body_acc_mag_mean	numeric	180	0.00 %	
	freq_body_acc_mag_std	numeric	180	0.00 %	
	freq_body_body_acc_jerk_mag_mean	numeric	180	0.00 %	
	freq_body_body_acc_jerk_mag_std	numeric	180	0.00 %	
	freq_body_body_gyro_mag_mean	numeric	180	0.00 %	
	freq_body_body_gyro_mag_std	numeric	180	0.00 %	
	freq_body_body_gyro_jerk_mag_mean	numeric	180	0.00 %	
	freq_body_body_gyro_jerk_mag_std	numeric	180	0.00 %	

Variable list

subject_id

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
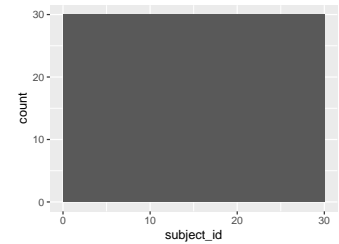
activity

Feature	Result
Variable type	factor
Number of missing obs.	0 (0 %)
Number of unique values	6
Mode	"walking"
Reference category	walking
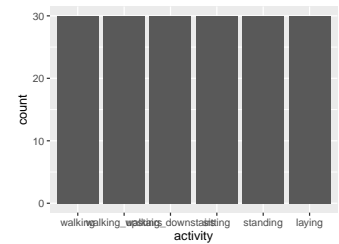
- Observed factor levels: "laying", "sitting", "standing", "walking", "walking_downstairs", "walking_upstairs".

time_body_acc_mean_x

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
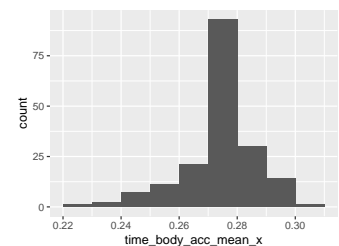
time_body_acc_mean_y

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
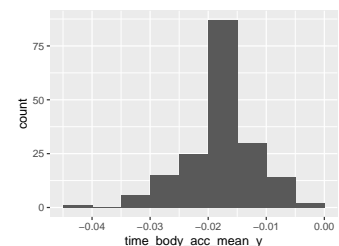
time_body_acc_mean_z

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
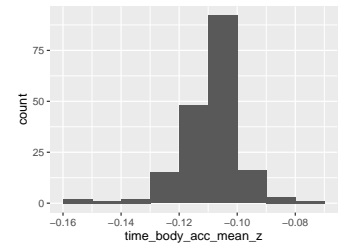
time_body_acc_std_x

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
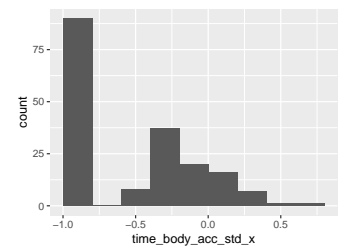
time_body_acc_std_y

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
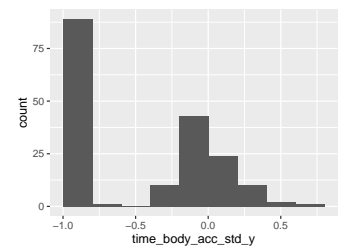
time_body_acc_std_z

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
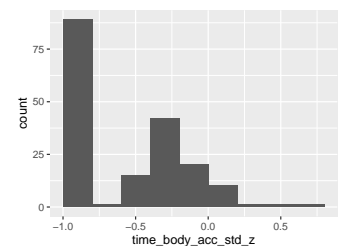
time_gravity_acc_mean_x

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
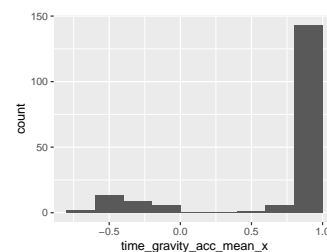
time_gravity_acc_mean_y

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
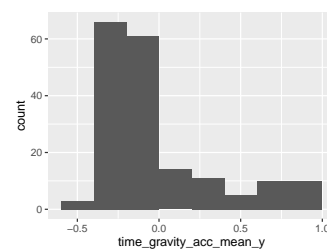
time_gravity_acc_mean_z

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
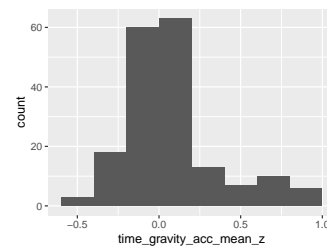
time_gravity_acc_std_x

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
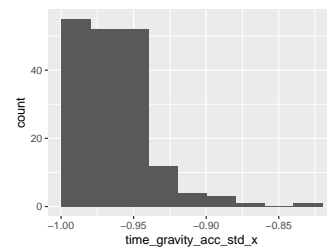
time_gravity_acc_std_y

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
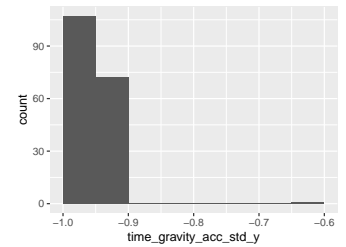
time_gravity_acc_std_z

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
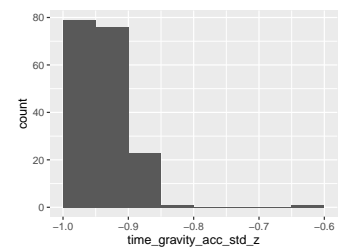
time_body_acc_jerk_mean_x

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
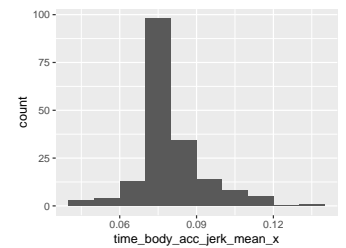
time_body_acc_jerk_mean_y

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
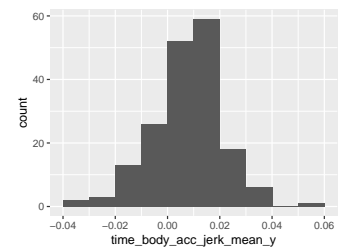
time_body_acc_jerk_mean_z

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
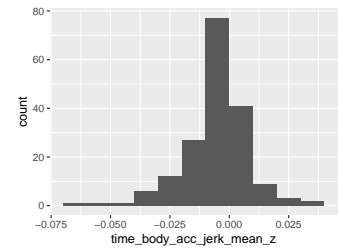
time_body_acc_jerk_std_x

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
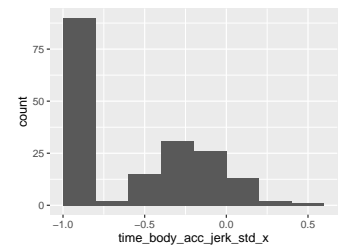
time_body_acc_jerk_std_y

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
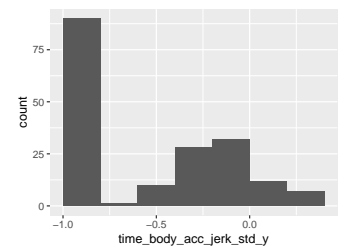
time_body_acc_jerk_std_z

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
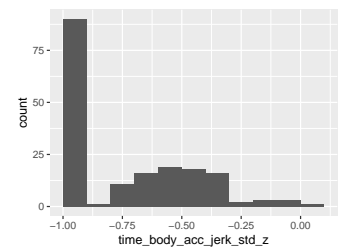
time_body_gyro_mean_x

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
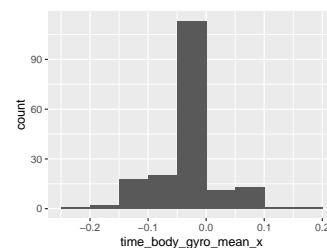
time_body_gyro_mean_y

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
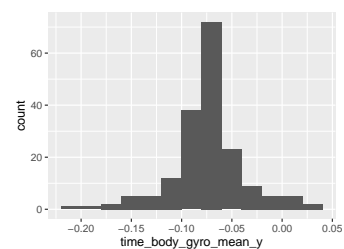
time_body_gyro_mean_z

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
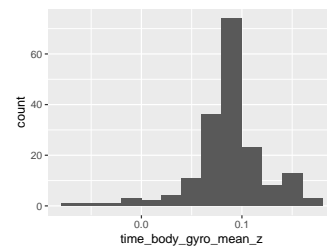
time_body_gyro_std_x

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
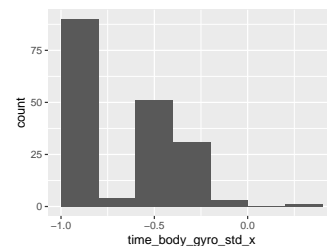
time_body_gyro_std_y

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
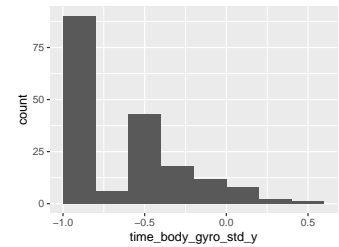
time_body_gyro_std_z

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
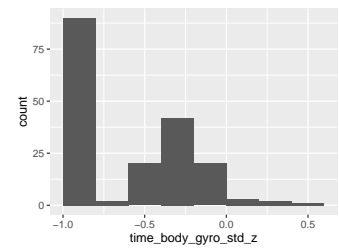
time_body_gyro_jerk_mean_x

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
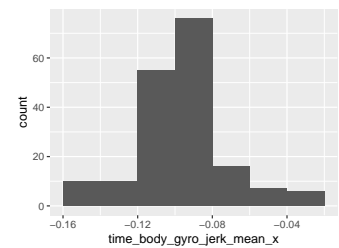
time_body_gyro_jerk_mean_y

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
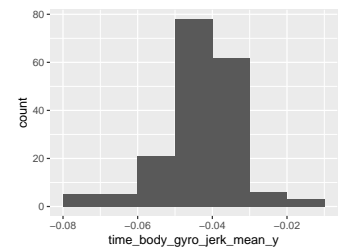
time_body_gyro_jerk_mean_z

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
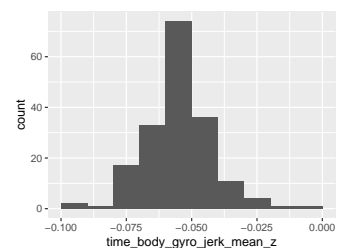
time_body_gyro_jerk_std_x

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
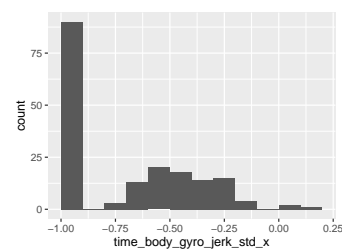
time_body_gyro_jerk_std_y

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
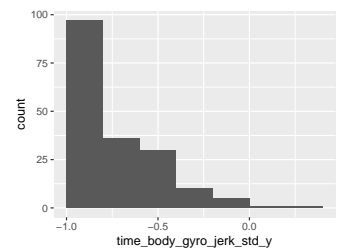
time_body_gyro_jerk_std_z

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

10
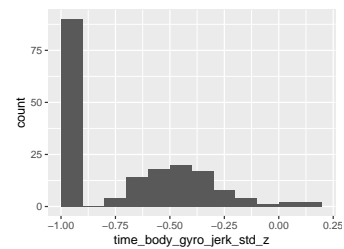
time_body_acc_mag_mean

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

time_body_acc_mag_std

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
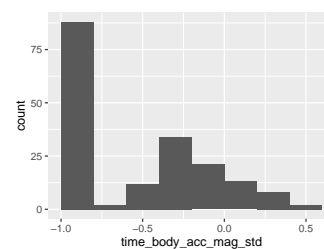
time_gravity_acc_mag_mean

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

time_gravity_acc_mag_std

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
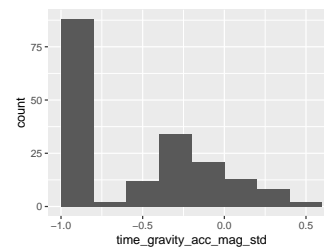
time_body_acc_jerk_mag_mean

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
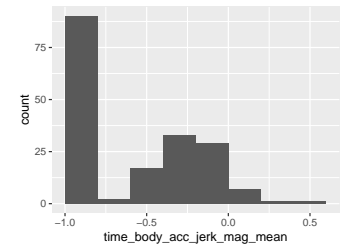
time_body_acc_jerk_mag_std

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
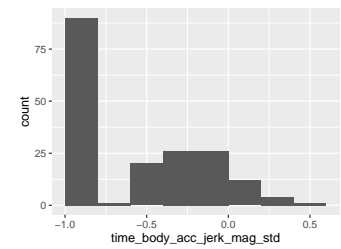
time_body_gyro_mag_mean

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
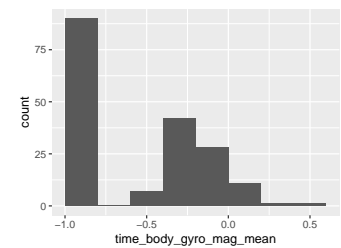
time_body_gyro_mag_std

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
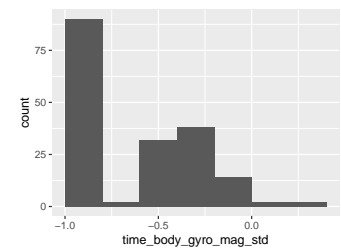
time_body_gyro_jerk_mag_mean

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
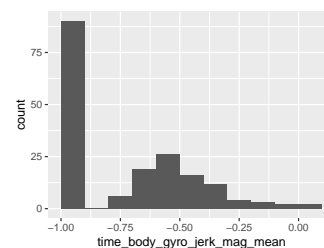
time_body_gyro_jerk_mag_std

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
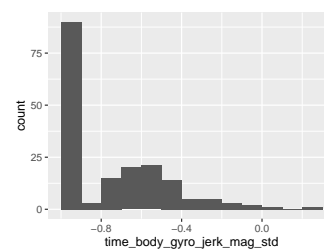
freq_body_acc_mean_x

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
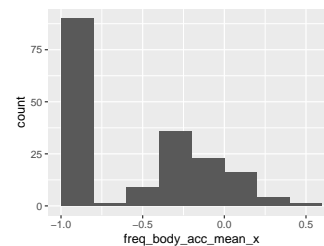
freq_body_acc_mean_y

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
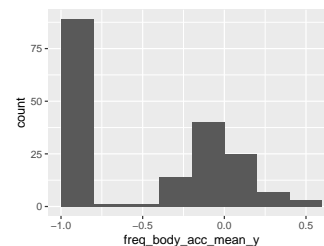
freq_body_acc_mean_z

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
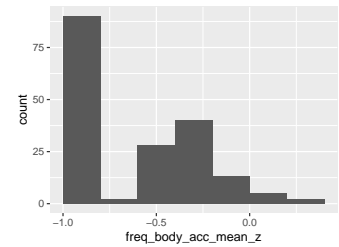
freq_body_acc_std_x

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
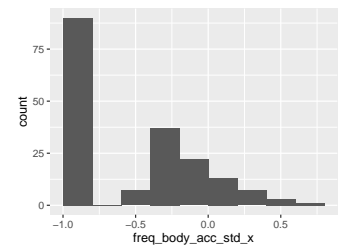
freq_body_acc_std_y

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
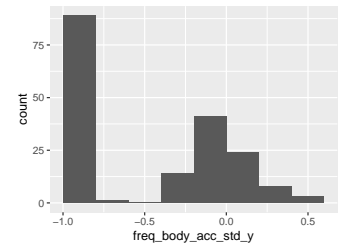
freq_body_acc_std_z

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
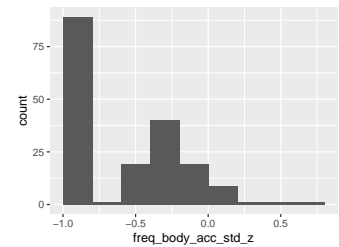
freq_body_acc_jerk_mean_x

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
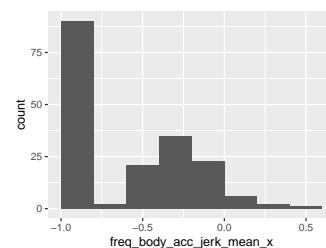
freq_body_acc_jerk_mean_y

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
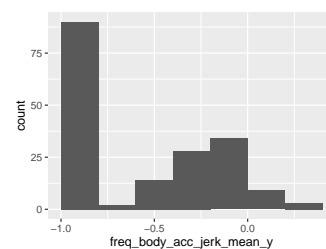
freq_body_acc_jerk_mean_z

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
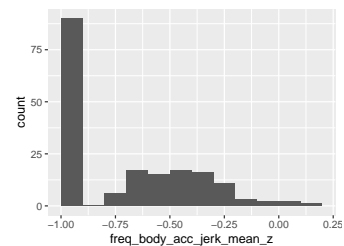
freq_body_acc_jerk_std_x

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
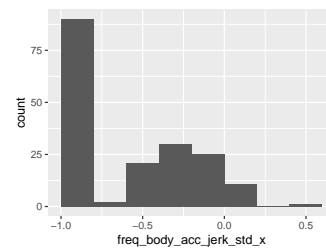
freq_body_acc_jerk_std_y

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
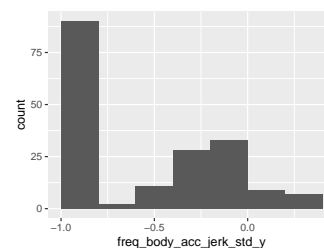
freq_body_acc_jerk_std_z

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
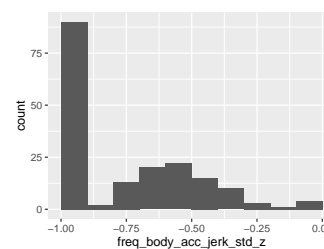
freq_body_gyro_mean_x

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
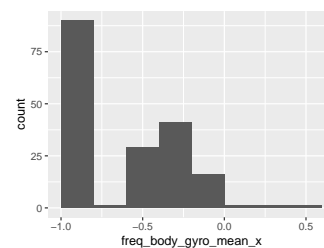
freq_body_gyro_mean_y

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
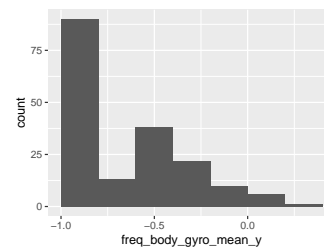
freq_body_gyro_mean_z

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
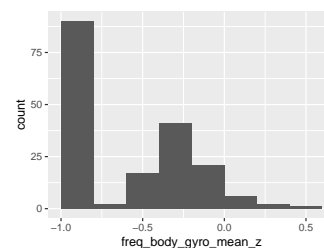
freq_body_gyro_std_x

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
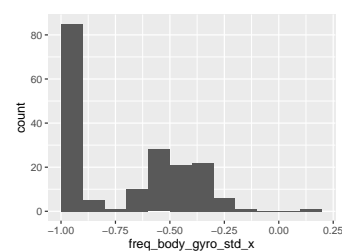
freq_body_gyro_std_y

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
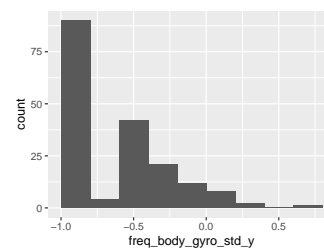
freq_body_gyro_std_z

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
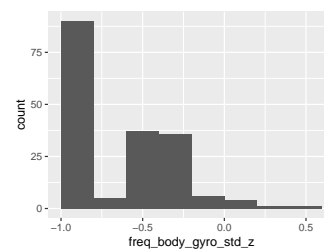
freq_body_acc_mag_mean

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
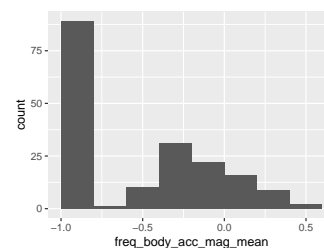
freq_body_acc_mag_std

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
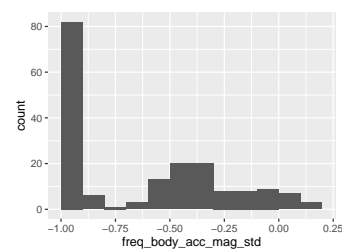
freq_body_body_acc_jerk_mag_mean

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
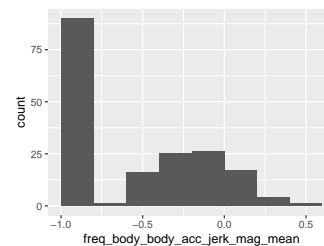
freq_body_body_acc_jerk_mag_std

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
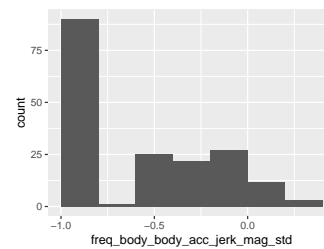
freq_body_body_gyro_mag_mean

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
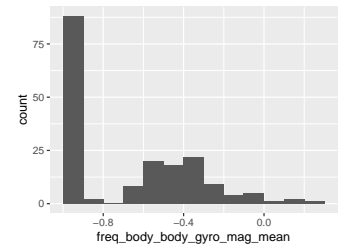
freq_body_body_gyro_mag_std

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
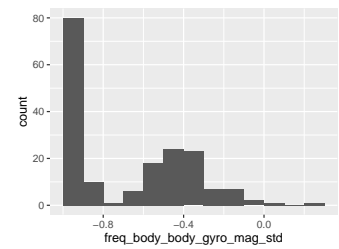
freq_body_body_gyro_jerk_mag_mean

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
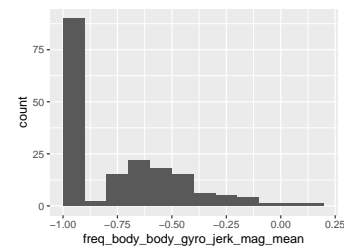
freq_body_body_gyro_jerk_mag_std

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