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Dipartimento di Ingegneria e Scienza dell'Informazione

KnowDive Group

SU2 Sensors Codebook

Date	Reference persons
31.01.2022 v0.1	Matteo Busso

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Revision History

Revision	Date	Author	Description of Changes
0.1	31.01.2022	Matteo Busso	Document created

Data report overview

The dataset examined has the following dimensions:

Feature	Result
Number of observations	219936
Number of variables	120

To compare each sensor observation, the frequency was reduced to half an hour. The first non-missing name is reported for each of the categorical variables. The following information is also provided to guide interpretation:

- **obs**: the total of the observations for the sensor during the half hour.
- **N.obs.**: the total of observations for each sensor during the entire month of data collection.

Codebook summary table

Variables' description

Variable	Description
Airplane Mode Event	Returns whether the phone's Airplane mode is ON/OFF
Application Event	Returns the name of the application (or application package) that is currently running in the foreground of the phone
Battery Charge Event	Returns whether the phone is on charge and the type of charger
Battery Monitoring Log	Returns the phone's battery level
Doze Event	Returns whether the phone's doze mode is on or off. Doze mode is a low battery consumption state in which the phone enters after some time of not being used
Headset Plug Event	Returns whether the headphones of the phone were connected
Location Event POI	<p>Returns the Point Of Interests surrounding the geocoordinates of where the phone is located. POI extracted every 5 minutes. Additional features are:</p> <p><i>Bearing</i>: the compass direction from the current position the intended destination. Bearing is measured in degrees and calculated clockwise from true north (e.g., the bearing for the direction of east is 090°)</p> <p><i>Speed</i>: The speed of the device, measured in meters/second over ground</p> <p><i>Provider</i>: It indicates whether the coordinates were found using the network/Wi-Fi</p> <p>It indicates whether the coordinates were found using GPS</p> <p><i>Suburb</i>: The neighborhood where the POI is located</p> <p><i>City</i>: The city where the POI is located</p> <p><i>Region</i>: The region where the POI is located</p> <p><i>Moving</i>: It indicates whether the user was moving</p> <p><i>Code_n</i>: 4-digit code (between 1000 and 9999) defining the feature class. The first one or two digits define the layer, the last two or three digits the class inside a layer. There is one for each POI near the user's location</p> <p><i>FClass_n</i>: Class name of this feature. This does not add any information that is not already in the "code" field, but it is better readable. There is one for each POI near the user's location</p> <p><i>Name_n</i>: Name of this feature, like a street or place name. If the name in OSM contains obviously wrong data such as "fixme" or "none", it will be empty. There is one for each POI near the user's location</p>
Location Event RD	<p>Returns the geocoordinates of where the phone is located. Additional features are:</p> <p><i>Bearing</i>: the compass direction from the current position the intended destination. Bearing is measured in degrees and calculated clockwise from true north (e.g., the bearing for the direction of east is 090°)</p> <p><i>Speed</i>: The speed of the device, measured in meters/second over ground</p> <p><i>Provider</i>: It indicates whether the coordinates were found using the network/Wi-Fi</p>

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It indicates whether the coordinates were found using GPS

Accuracy: The GPS accuracy in meters

Latitude: Geographic coordinate that specifies the N/S position. Latitude is an angle which ranges from 0° at the Equator to 90° at the poles. It is expressed in sexadecimal notation.

Longitude: Geographic coordinate that specifies the E/W position. Longitude is an angle which ranges from 0° at the prime Meridian to 180°. It is expressed in sexadecimal notation

Altitude: elevation above sea level in meters.

Music Event

Returns whether music is being played on the phone (yes or no) using the default music player from the operating system

Notification Event

Measures when the phone receives a notification and when it is dismissed by the user

Proximity Event

Measures the distance between the user's head and the phone, depending on the phone it may be measured in centimeters (i.e., the absolute distance) or as labels (e.g., 'near', 'far')

Ring Mode Event

Returns the current ring status of the phone (normal/silent/vibrate)

Screen Event

Returns whether the phone's screen is on or off

WIFI Event

Returns information related to the WIFI network to which the phone is connected to, if connected will also report the WIFI network id. Additional features are:

bssid: (Basic Service Set Identifier): Special SSID used to define a wireless computer network configured to communicate directly with each other without an access point.

isconnected: return if the phone is connected to the WIFI

ssid: (Service Set Identifier) ID or unique identifier of a digital network (Wi-Fi or WLAN)

WIFI Networks Event

Returns all WIFI networks detected by the smartphone. Additional features are:

address: is a unique identifier assigned to a network interface controller (NIC) for use as a network address in communications within a network segment.

capabilities: allows local area networks (LANs) to operate without cables and wiring

frequency: the WIFI frequency band, that includes two frequency ranges within the wireless spectrum that are designated to carry WIFI: 2.4 GHz and 5 GHz

name: the name assigned to the WIFI network

rssi: (Received Signal Strength Indicator) is an estimated measurement of how well a device can hear, detect, and receive signals from any wireless access point or Wi-Fi router. An RSSI closer to 0 is stronger, and closer to -100 is weaker.

Variables' summary

Variable	Class	unique values	Missing	N. Obs.	Frequency	U.M.
<i>userid</i>	numeric	158	0.00 %			
<i>timestamp</i>	POSIXct	1.392	0.00 %			
AirPlaneModeEvent				2.567	On charge	0/1
<i>obs</i>	integer	13	99.21 %			
<i>status</i>	logical	3	99.21 %			
ApplicationEvent				35.184.768	Every 5 seconds	Unitless
<i>obs</i>	integer	546	49.23 %			
<i>applicationname</i>	character	735	49.23 %			
BatteryChargeEvent				42.664	On charge	0/1
<i>obs</i>	integer	59	91.89 %			
<i>source</i>	character	5	96.11 %			

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<i>status</i>	logical	3	91.89 %			
BatteryMonitoringLog				26.934	On charge	%
<i>obs</i>	integer	37	94.51 %			
<i>level</i>	numeric	102	94.51 %			
<i>scale</i>	numeric	2	94.51 %			
DozeEvent				11.914	On charge	0/1
<i>obs</i>	integer	10	96.93 %			
<i>status</i>	logical	3	96.93 %			
HeadsetPlugEvent				171.677	On charge	0/1
<i>obs</i>	integer	20	61.06 %			
<i>status</i>	logical	3	61.06 %			
LocationEventPOI				1.583.389	Every 5 minutes	Unitless
<i>obs</i>	integer	46	63.15 %			
<i>bearing</i>	numeric	2.896	63.15 %			
<i>speed</i>	numeric	2.292	63.15 %			
<i>network_provider</i>	logical	3	63.15 %			
<i>gps_provider</i>	logical	3	63.15 %			
<i>suburb</i>	character	677	69.94 %			
<i>city</i>	character	418	67.10 %			
<i>region</i>	character	8	63.15 %			
<i>moving</i>	logical	3	63.15 %			
<i>fclass_n</i>	character	108	76.59 %			
<i>code_n</i>	numeric	109	76.59 %			
<i>name_n</i>	character	357	91.76 %			
LocationEventRD				4.144.214	Every minute	°,mm,ss
<i>obs</i>	integer	503	63.15 %			
<i>accuracy</i>	numeric	12.894	63.15 %			
<i>bearing</i>	numeric	2.604	63.15 %			
<i>lucene</i>	logical	1	100.00 %			
<i>latitude</i>	numeric	3.223	63.15 %			
<i>longitude</i>	numeric	3.587	63.15 %			
<i>altitude</i>	numeric	6.412	63.15 %			
<i>provider</i>	character	3	66.02 %			
<i>speed</i>	numeric	1.235	63.15 %			
MusicEvent				92.510	On charge	0/1
<i>obs</i>	integer	109	89.09 %			
<i>status</i>	logical	3	89.09 %			
NotificationEvent				3.224.577	On charge	Unitless
<i>obs</i>	integer	893	68.91 %			
<i>id</i>	numeric	3.243	68.91 %			
<i>isclearable</i>	logical	3	68.91 %			
<i>isongoing</i>	logical	3	68.91 %			
<i>package</i>	character	454	68.91 %			
<i>status</i>	character	3	68.91 %			
ProximityEvent				11.405.724	On charge	0/1
<i>obs</i>	integer	1.843	26.43 %			
<i>value</i>	numeric	11	26.43 %			
RingModeEvent				2.042.901	On charge	0/1
<i>obs</i>	integer	37	53.22 %			
<i>status</i>	character	3	53.22 %			
ScreenEvent				1.252.576	On charge	0/1
<i>obs</i>	integer	164	49.73 %			

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<i>starttimestamp</i>	POSIXct	110.542	49.73 %			
<i>endtimestamp</i>	POSIXct	110.552	49.73 %			
<i>status</i>	character	3	49.73 %			
WifiEvent				747.366	On charge	Unitless
<i>obs</i>	integer	83	82.74 %			
<i>bssid</i>	character	3.078	83.02 %			
<i>isconnected</i>	logical	3	82.74 %			
<i>ssid</i>	character	549	82.74 %			
WifiNetworksEvent				2.859.187	Every minute	Unitless
<i>obs</i>	integer	274	51.42 %			
<i>address</i>	character	19.669	51.42 %			
<i>capabilities</i>	character	295	51.42 %			
<i>frequency</i>	numeric	37	51.42 %			
<i>name</i>	character	11.319	52.99 %			
<i>rssi</i>	numeric	86	51.42 %			



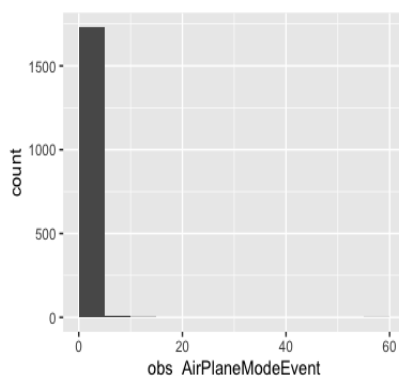
Variable list

userid

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	158
Median	78.5
1st and 3rd quartiles	39; 118
Min. and max.	0; 157

obs_AirPlaneModeEvent

Feature	Result
Variable type	integer
Number of missing obs.	218192 (99.21 %)
Number of unique values	12
Median	1
1st and 3rd quartiles	1; 1
Min. and max.	1; 60



status_AirPlaneModeEvent

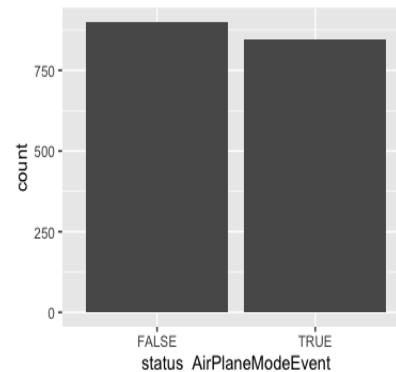
Feature	Result
Variable type	logical
Number of missing obs.	218192 (99.21 %)

Number of
unique values

2

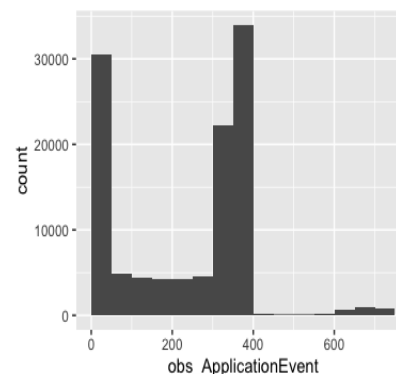
Mode

"NA"



obs_ApplicationEvent

Feature	Result
Variable type	integer
Number of missing obs.	108268 (49.23 %)
Number of unique values	545
Median	318
1st and 3rd quartiles	30; 354
Min. and max.	0; 724



applicationname_ApplicationEvent

Feature	Result
Variable type	character
Number of missing obs.	131465 (59.77 %)
Number of	734

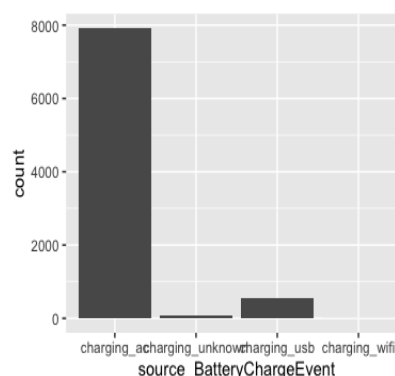
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unique
values

Mode "com.huawei.android.launcher"

Observed factor levels:

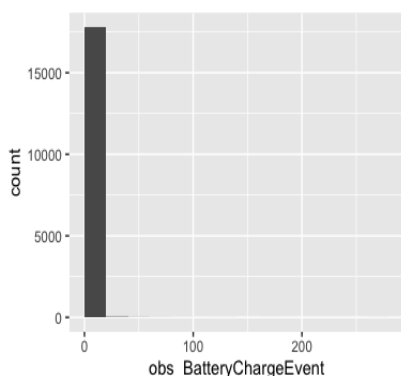
"age.of.civilizations.africa.lukasz.jakowski",
"air.com.dryginstudios.bioinc",
"air.kr.co.greentree.picrosswall3", "android",
"ansa.app", "app.qrcode",
"appinventor.ai_nunzio_ciccarelli.Santa_Brigida",
[...], "zombie.survival.craft.z".



Observed factor levels: "charging_ac",
"charging_unknown", "charging_usb",
"charging_wifi".

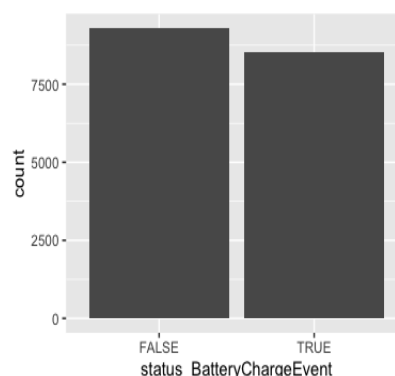
obs_BatteryChargeEvent

Feature	Result
Variable type	integer
Number of missing obs.	202094 (91.89 %)
Number of unique values	58
Median	1
1st and 3rd quartiles	0; 1
Min. and max.	0; 278



status_BatteryChargeEvent

Feature	Result
Variable type	logical
Number of missing obs.	202094 (91.89 %)
Number of unique values	2
Mode	"NA"



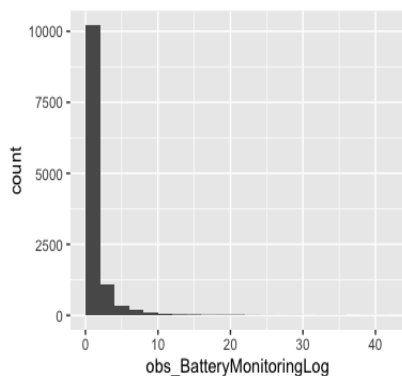
source_BatteryChargeEvent

Feature	Result
Variable type	character
Number of missing obs.	211387 (96.11 %)
Number of unique values	4
Mode	"charging_ac"

obs_BatteryMonitoringLog

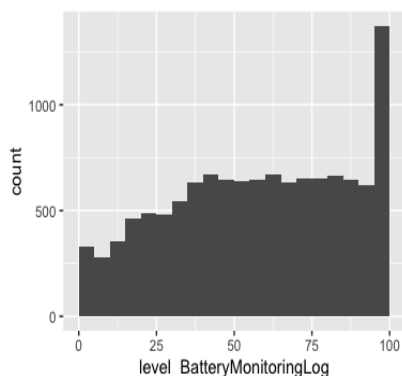
Feature	Result
Variable type	integer
Number of missing obs.	207867 (94.51 %)
Number of unique values	36
Median	1
1st and 3rd quartiles	1; 2
Min. and max.	1; 41

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level_BatteryMonitoringLog

Feature	Result
Variable type	numeric
Number of missing obs.	207867 (94.51 %)
Number of unique values	101
Median	59
1st and 3rd quartiles	36; 83
Min. and max.	0; 100



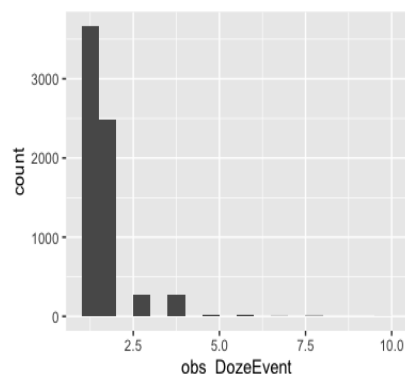
scale_BatteryMonitoringLog

The variable only takes one (non-missing) value: "100". The variable contains 94.51 % missing observations.

obs_DozeEvent

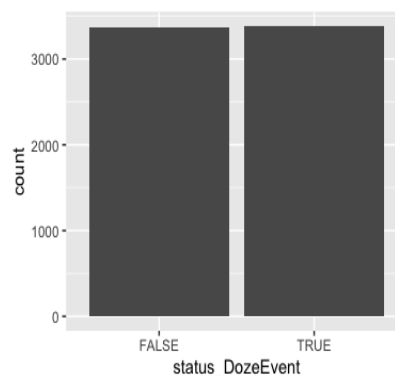
Feature	Result
Variable type	integer
Number of missing obs.	213191 (96.93 %)
Number of unique values	9
Median	1
1st and 3rd quartiles	1; 2

Min. and max. 1; 10



status_DozeEvent

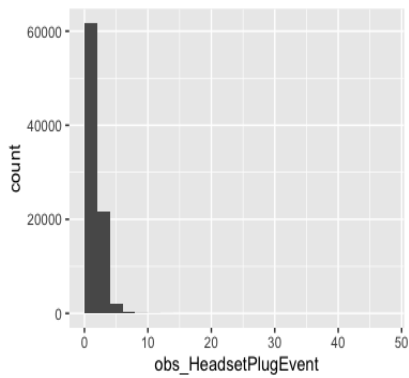
Feature	Result
Variable type	logical
Number of missing obs.	213191 (96.93 %)
Number of unique values	2
Mode	"NA"



obs_HeadsetPlugEvent

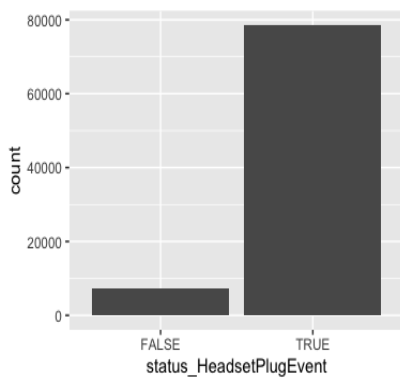
Feature	Result
Variable type	integer
Number of missing obs.	134282 (61.06 %)
Number of unique values	19
Median	1
1st and 3rd quartiles	1; 3
Min. and max.	1; 48

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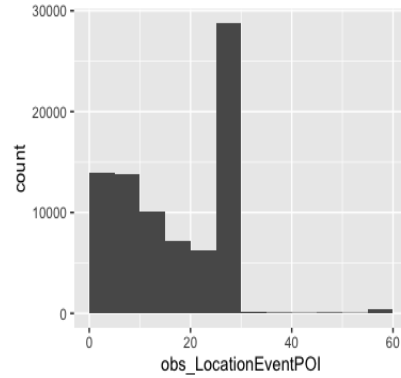
status_HeadsetPlugEvent

Feature	Result
Variable type	logical
Number of missing obs.	134282 (61.06 %)
Number of unique values	2
Mode	"NA"



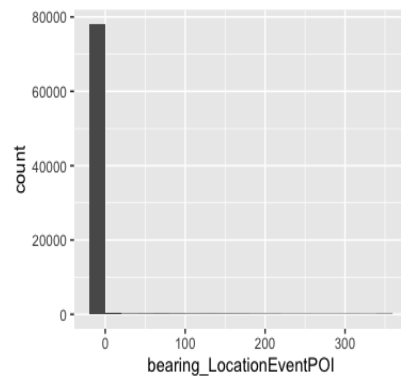
obs_LocationEventPOI

Feature	Result
Variable type	integer
Number of missing obs.	138892 (63.15 %)
Number of unique values	45
Median	17
1st and 3rd quartiles	7; 30
Min. and max.	1; 60



bearing_LocationEventPOI

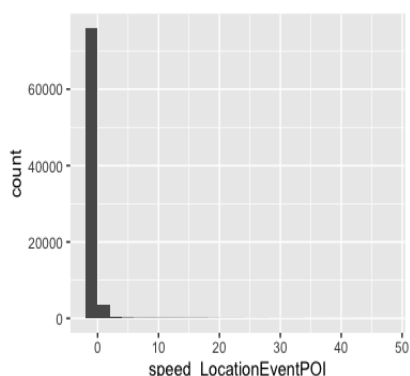
Feature	Result
Variable type	numeric
Number of missing obs.	138892 (63.15 %)
Number of unique values	2895
Median	-1
1st and 3rd quartiles	-1; -1
Min. and max.	-1; 359.94



speed_LocationEventPOI

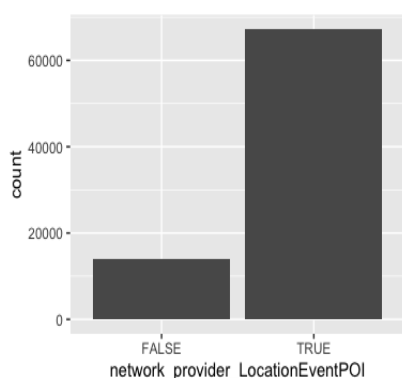
Feature	Result
Variable type	numeric
Number of missing obs.	138892 (63.15 %)
Number of unique values	2291
Median	-1
1st and 3rd quartiles	-1; -1
Min. and max.	-1; 46.93

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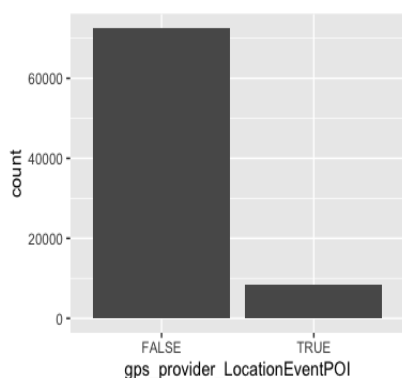
network_provider_LocationEventPOI

Feature	Result
Variable type	logical
Number of missing obs.	138892 (63.15 %)
Number of unique values	2
Mode	"NA"



gps_provider_LocationEventPOI

Feature	Result
Variable type	logical
Number of missing obs.	138892 (63.15 %)
Number of unique values	2
Mode	"NA"



suburb_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	153813 (69.94 %)
Number of unique values	676
Mode	"Centro storico Trento"

Observed factor levels: "Acqua del Restel", "Aica di Sotto", "Al Maso", "Alberé di Tenna", "Alberone", "Albio", "Alboletta", "Altichiero", "Altipiano Est", "Angarano", "Antlas", "Arcella", "Area artigianale", "Aris", [...], "Zope".

city_LocationEventPOI

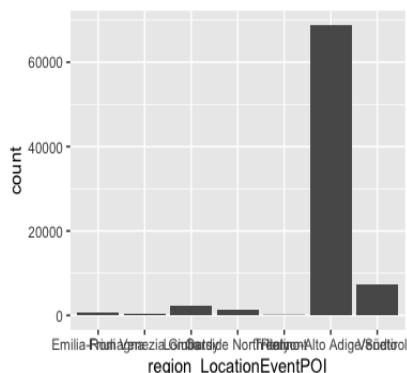
Feature	Result
Variable type	character
Number of missing obs.	147577 (67.1 %)
Number of unique values	417
Mode	"Trento"

Observed factor levels: "Abano Terme", "Agnedo", "Agrate Brianza", "Ala", "Alba", "Albiano", "Albignasego", "Alta Vall'Isarco", "Alte Ceccato", "Andriano", "Appiano sulla strada del vino", "Arabba", "Arbizzano", "Arco", "Arcore", "Arquà Petrarca", "Arsiè", "Arten", "Avio", "Balconi", "Barbano", "Barbasso", "Barco", [...], "Zivignago".

region_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	138892 (63.15 %)
Number of unique values	7
Mode	"Trentino-Alto Adige/Südtirol"

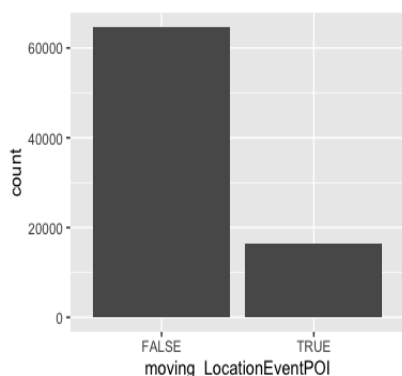
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- Observed factor levels: "Emilia-Romagna", "Friuli Venezia Giulia", "Lombardy", "Outside North Italy", "Piemont", "Trentino-Alto Adige/Südtirol", "Veneto".

moving_LocationEventPOI

Feature	Result
Variable type	logical
Number of missing obs.	138892 (63.15 %)
Number of unique values	2
Mode	"NA"



fclass0_LocationEventPOI

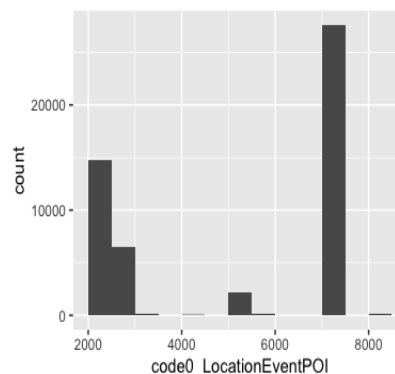
Feature	Result
Variable type	character
Number of missing obs.	168442 (76.59 %)
Number of unique values	107
Mode	"residential"

Observed factor levels: "atm", "attraction", "bakery", "bank", "bar", "bicycle_rental", "bookshop", "cafe", "car_rental", [...], "wayside_shrine".

code0_LocationEventPOI

Feature	Result
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Variable type	numeric
Number of missing obs.	168442 (76.59 %)
Number of unique values	108
Median	7203
1st and 3rd quartiles	2302; 7203
Min. and max.	2001; 8202



name0_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	201818 (91.76 %)
Number of unique values	356
Mode	"Dipartimento di Ingegneria e Scienza ..."

Observed factor levels: "3Store", "Adige", "Al 21 del Vò", "Al Caminetto", "Al Duomo", "Al Gusto", "Al Porteghet", "Alimentari B.D.", "Alpia Tourdolomit", "Alpina Games", "Amanito", "and", [...], "Zona Industriale Bolzano Sud - Industriezone Bozen Süd".

fclass1_LocationEventPOI

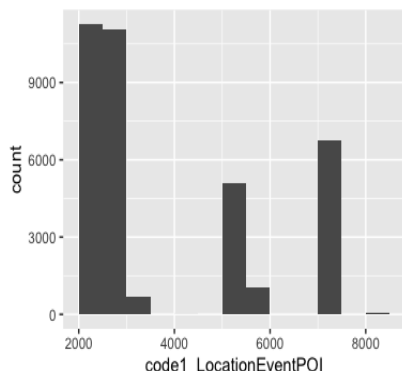
Feature	Result
Variable type	character
Number of missing obs.	184029 (83.67 %)
Number of unique values	119
Mode	"parking"

Observed factor levels: "atm", "attraction", "bakery", "bank", "bar", "bicycle_rental", "bookshop", "cafe", "car_rental", [...], "wayside_shrine".

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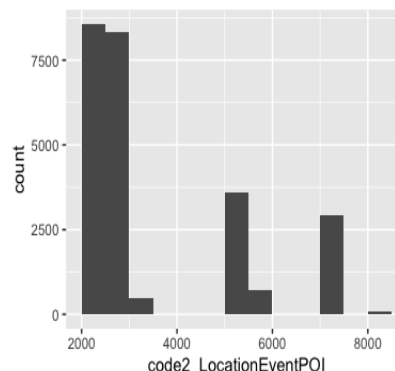
code1_LocationEventPOI

Feature	Result
Variable type	numeric
Number of missing obs.	184029 (83.67 %)
Number of unique values	120
Median	2601
1st and 3rd quartiles	2302; 5270
Min. and max.	2001; 8202



code2_LocationEventPOI

Feature	Result
Variable type	numeric
Number of missing obs.	195239 (88.77 %)
Number of unique values	116
Median	2590
1st and 3rd quartiles	2302; 5263
Min. and max.	2001; 8221



name1_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	202546 (92.09 %)
Number of unique values	473
Mode	"BUC - nuova Biblioteca Universitaria Centrale"

Observed factor levels: "3Store", "Adige", "Al 21 del Vò", "Al Caminetto", "Al Duomo", "Al Gusto", "Al Porteghet", "Alimentari B.D.", "Alpia Tourdolomit", "Alpina Games", "Amanito", "and", [...], "Zona Industriale Bolzano Sud - Industriezone Bozen Süd".

name2_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	207524 (94.36 %)
Number of unique values	441
Mode	"Giardino di via Muredei"

Observed factor levels: "3Store", "Adige", "Al 21 del Vò", "Al Caminetto", "Al Duomo", "Al Gusto", "Al Porteghet", "Alimentari B.D.", "Alpia Tourdolomit", "Alpina Games", "Amanito", "and", [...], "Zona Industriale Bolzano Sud - Industriezone Bozen Süd".

fclass2_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	195239 (88.77 %)
Number of unique values	115
Mode	"park"

Observed factor levels: "atm", "attraction", "bakery", "bank", "bar", "bicycle_rental", "bookshop", "cafe", "car_rental", [...], "wayside_shrine".

fclass3_LocationEventPOI

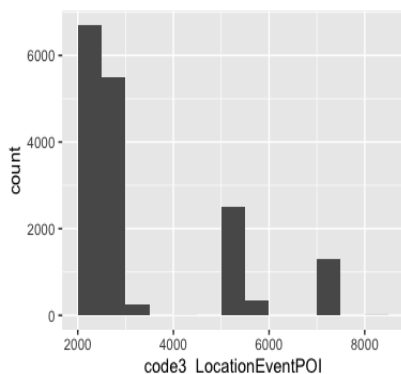
Feature	Result
Variable type	character
Number of missing obs.	203306 (92.44 %)
Number of unique values	108
Mode	"parking_bicycle"

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Observed factor levels: "atm", "attraction", "bakery", "bank", "bar", "bicycle_rental", "bookshop", "cafe", "car_rental", [...], "wayside_shrine".

code3_LocationEventPOI

Feature	Result
Variable type	numeric
Number of missing obs.	203306 (92.44 %)
Number of unique values	109
Median	2525
1st and 3rd quartiles	2301; 5260
Min. and max.	2001; 8202



name3_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	211317 (96.08 %)
Number of unique values	398
Mode	"Giardino Lungofersina"

Observed factor levels: "3Store", "Adige", "Al 21 del Vò", "Al Caminetto", "Al Duomo", "Al Gusto", "Al Porteghet", "Alimentari B.D.", "Alpia Tourdolomit", "Alpina Games", "Amanito", "and", [...], "Zona Industriale Bolzano Sud - Industriezone Bozen Süd".

fclass4_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	207584 (94.38 %)

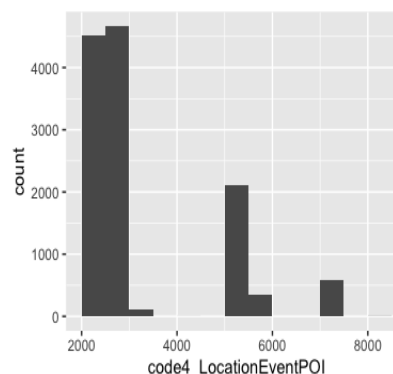
Number of unique values 101

Mode "parking_bicycle"

Observed factor levels: "atm", "attraction", "bakery", "bank", "bar", "bicycle_rental", "bookshop", "cafe", "car_rental", [...], "wayside_shrine".

code4_LocationEventPOI

Feature	Result
Variable type	numeric
Number of missing obs.	207584 (94.38 %)
Number of unique values	102
Median	2525
1st and 3rd quartiles	2301; 3102
Min. and max.	2001; 8200



name4_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	212784 (96.75 %)
Number of unique values	364
Mode	"Giardino Lungofersina"

Observed factor levels: "3Store", "Adige", "Al 21 del Vò", "Al Caminetto", "Al Duomo", "Al Gusto", "Al Porteghet", "Alimentari B.D.", "Alpia Tourdolomit", "Alpina Games", "Amanito", "and", [...], "Zona Industriale Bolzano Sud - Industriezone Bozen Süd".

fclass5_LocationEventPOI

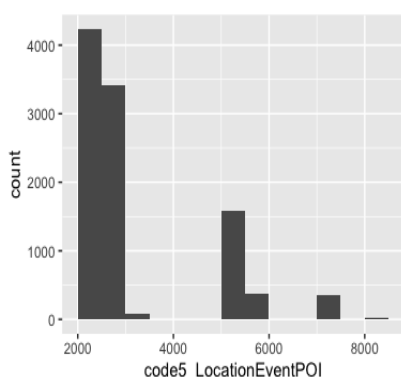
Feature	Result
Variable type	character

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Number of missing obs. 209878 (95.43 %)
 Number of unique values 103
 Mode "parking"
Observed factor levels: "atm", "attraction", "bakery", "bank", "bar", "bicycle_rental", "bookshop", "cafe", "car_rental", [...], "wayside_shrine".

code5_LocationEventPOI

Feature	Result
Variable type	numeric
Number of missing obs.	209878 (95.43 %)
Number of unique values	104
Median	2517
1st and 3rd quartiles	2301; 2902
Min. and max.	2001; 8200



name5_LocationEventPOI

Feature Result
 Variable type character
 Number of missing obs. 214072 (97.33 %)
 Number of unique values 349
 Mode "Becos"
Observed factor levels: "3Store", "Adige", "Al 21 del Vò", "Al Caminetto", "Al Duomo", "Al Gusto", "Al Porteghet", "Alimentari B.D.", "Alpia Tourdolomit", "Alpina Games", "Amanito", "and", [...], "Zona Industriale Bolzano Sud - Industriezone Bozen Süd".

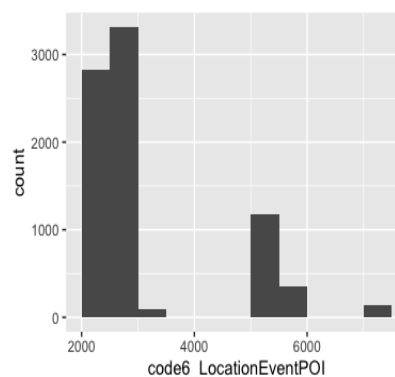
fclass6_LocationEventPOI

Feature	Result
Variable type	character

Number of missing obs. 212048 (96.41 %)
 Number of unique values 91
 Mode "parking_bicycle"
Observed factor levels: "atm", "attraction", "bakery", "bank", "bar", "bicycle_rental", "bookshop", "cafe", "car_rental", [...], "wayside_shrine".

code6_LocationEventPOI

Feature	Result
Variable type	numeric
Number of missing obs.	212048 (96.41 %)
Number of unique values	92
Median	2520
1st and 3rd quartiles	2302.75; 2903
Min. and max.	2002; 7218



name6_LocationEventPOI

Feature Result
 Variable type character
 Number of missing obs. 215076 (97.79 %)
 Number of unique values 314
 Mode "Bar da Giorgio"
Observed factor levels: "3Store", "Adige", "Al 21 del Vò", "Al Caminetto", "Al Duomo", "Al Gusto", "Al Porteghet", "Alimentari B.D.", "Alpia Tourdolomit", "Alpina Games", "Amanito", "and", [...], "Zona Industriale Bolzano Sud - Industriezone Bozen Süd".

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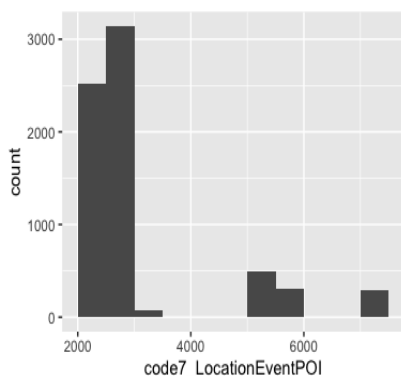
fclass7_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	213131 (96.91 %)
Number of unique values	88
Mode	"clothes"

Observed factor levels: "atm", "attraction", "bakery", "bank", "bar", "bicycle_rental", "bookshop", "cafe", "car_rental", [...], "wayside_shrine".

code7_LocationEventPOI

Feature	Result
Variable type	numeric
Number of missing obs.	213131 (96.91 %)
Number of unique values	89
Median	2513
1st and 3rd quartiles	2303; 2724
Min. and max.	2004; 7218



name7_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	215300 (97.89 %)
Number of unique values	269
Mode	"Bar da Giorgio"

Observed factor levels: "3Store", "Adige", "Al 21 del Vò", "Al Caminetto", "Al Duomo", "Al Gusto", "Al Porteghet", "Alimentari B.D.", "Alpia Tourdolomit", "Alpina Games", "Amanito", "and", [...], "Zona Industriale Bolzano Sud - Industriezone Bozen Süd".

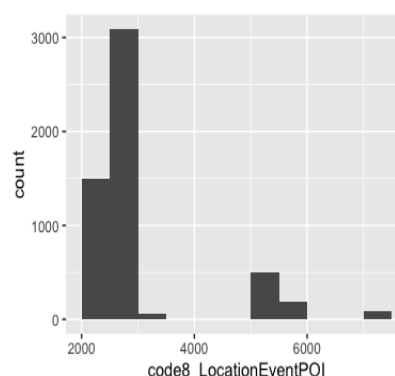
fclass8_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	214527 (97.54 %)
Number of unique values	81
Mode	"clothes"

Observed factor levels: "atm", "attraction", "bakery", "bank", "bar", "bicycle_rental", "bookshop", "cafe", "car_rental", [...], "wayside_shrine".

code8_LocationEventPOI

Feature	Result
Variable type	numeric
Number of missing obs.	214527 (97.54 %)
Number of unique values	82
Median	2529
1st and 3rd quartiles	2304; 2601
Min. and max.	2004; 7218



name8_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	216036 (98.23 %)
Number of unique values	233
Mode	"e.motion / Università"

Observed factor levels: "3Store", "Adige", "Al 21 del Vò", "Al Caminetto", "Al Duomo", "Al Gusto", "Al Porteghet", "Alimentari B.D.", "Alpia Tourdolomit", "Alpina Games", "Amanito", "and", [...], "Zona Industriale Bolzano Sud - Industriezone Bozen Süd".

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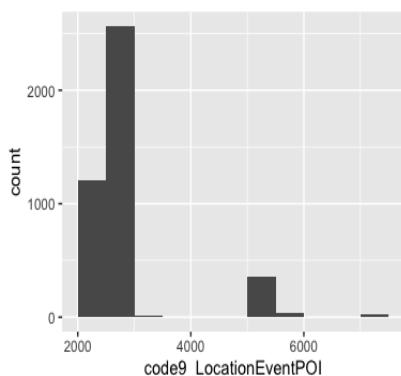
fclass9_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	215731 (98.09 %)
Number of unique values	78
Mode	"clothes"

Observed factor levels: "atm", "attraction", "bakery", "bank", "bar", "bicycle_rental", "bookshop", "cafe", "car_rental", [...], "wayside_shrine".

code9_LocationEventPOI

Feature	Result
Variable type	numeric
Number of missing obs.	215731 (98.09 %)
Number of unique values	79
Median	2527
1st and 3rd quartiles	2305; 2593
Min. and max.	2004; 7218



name9_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	217037 (98.68 %)
Number of unique values	217
Mode	"Estetica Più"

Observed factor levels: "3Store", "Adige", "Al 21 del Vò", "Al Caminetto", "Al Duomo", "Al Gusto", "Al Porteghet", "Alimentari B.D.", "Alpia Tourdolomit", "Alpina Games", "Amanito", "and", [...], "Zona Industriale Bolzano Sud - Industriezone Bozen Süd".

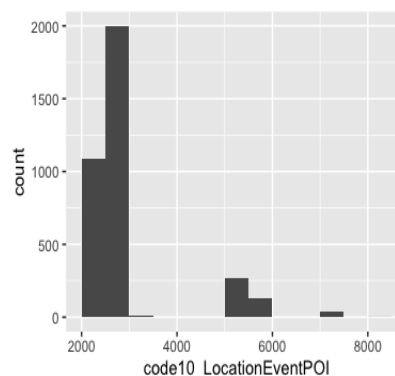
fclass10_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	216412 (98.4 %)
Number of unique values	75
Mode	"clothes"

Observed factor levels: "atm", "attraction", "bakery", "bank", "bar", "bicycle_rental", "bookshop", "cafe", "car_rental", [...], "wayside_shrine".

code10_LocationEventPOI

Feature	Result
Variable type	numeric
Number of missing obs.	216412 (98.4 %)
Number of unique values	76
Median	2512
1st and 3rd quartiles	2303; 2567
Min. and max.	2004; 8200



name10_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	217058 (98.69 %)
Number of unique values	203
Mode	"Trattoria Al Mercato"

Observed factor levels: "3Store", "Adige", "Al 21 del Vò", "Al Caminetto", "Al Duomo", "Al Gusto", "Al Porteghet", "Alimentari B.D.", "Alpia Tourdolomit", "Alpina Games", "Amanito", "and", [...], "Zona Industriale Bolzano Sud - Industriezone Bozen Süd".

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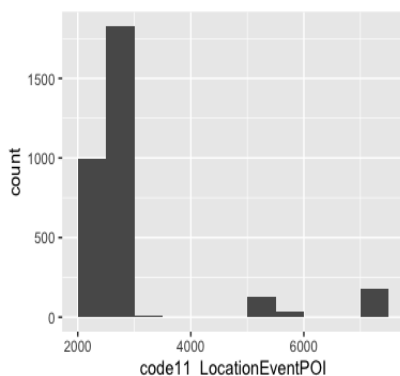
fclass11_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	216772 (98.56 %)
Number of unique values	72
Mode	"clothes"

Observed factor levels: "atm", "attraction", "bakery", "bank", "bar", "bicycle_rental", "bookshop", "cafe", "car_rental", [...], "wayside_shrine".

code11_LocationEventPOI

Feature	Result
Variable type	numeric
Number of missing obs.	216772 (98.56 %)
Number of unique values	73
Median	2517
1st and 3rd quartiles	2304; 2591
Min. and max.	2004; 7218



name11_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	217612 (98.94 %)
Number of unique values	175
Mode	"Cafè Corner Bianco"

Observed factor levels: "3Store", "Adige", "Al 21 del Vò", "Al Caminetto", "Al Duomo", "Al Gusto", "Al Porteghet", "Alimentari B.D.", "Alpia Tourdolomit", "Alpina Games", "Amanito", "and", [...], "Zona Industriale Bolzano Sud - Industriezone Bozen Süd".

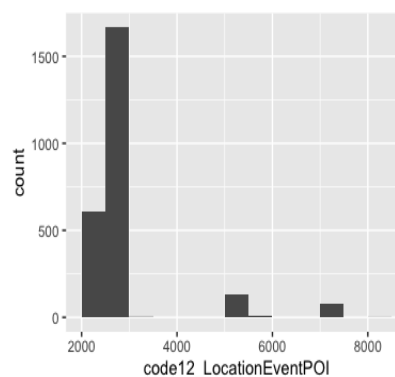
fclass12_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	217452 (98.87 %)
Number of unique values	65
Mode	"hairdresser"

Observed factor levels: "atm", "attraction", "bakery", "bank", "bar", "bicycle_rental", "bookshop", "cafe", "car_rental", [...], "wayside_shrine".

code12_LocationEventPOI

Feature	Result
Variable type	numeric
Number of missing obs.	217452 (98.87 %)
Number of unique values	66
Median	2527
1st and 3rd quartiles	2511; 2591
Min. and max.	2004; 8200



name12_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	218144 (99.19 %)
Number of unique values	143
Mode	"Parrucchieri Maria Pia"

Observed factor levels: "3Store", "Adige", "Al 21 del Vò", "Al Caminetto", "Al Duomo", "Al Gusto", "Al Porteghet", "Alimentari B.D.", "Alpia Tourdolomit", "Alpina Games", "Amanito", "and", [...], "Zona Industriale Bolzano Sud - Industriezone Bozen Süd".

"Alpina Games", "Amanito", "and", [...], "Zona Industriale Bolzano Sud - Industriezone Bozen Süd".

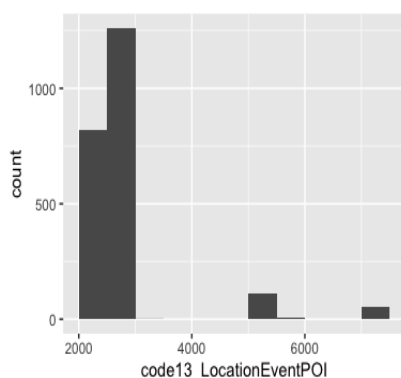
fclass13_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	217688 (98.98 %)
Number of unique values	61
Mode	"restaurant"

Observed factor levels: "atm", "attraction", "bakery", "bank", "bar", "bicycle_rental", "bookshop", "cafe", "car_rental", [...], "wayside_shrine".

code13_LocationEventPOI

Feature	Result
Variable type	numeric
Number of missing obs.	217688 (98.98 %)
Number of unique values	62
Median	2515
1st and 3rd quartiles	2303; 2701
Min. and max.	2004; 7218

**name13_LocationEventPOI**

Feature	Result
Variable type	character
Number of missing obs.	218185 (99.2 %)
Number of unique values	137
Mode	"Borgo Nuovo Trento"

Observed factor levels: "3Store", "Adige", "Al 21 del Vò", "Al Caminetto", "Al Duomo", "Al Gusto", "Al Porteghet", "Alimentari B.D.", "Alpia Tourdolomit",

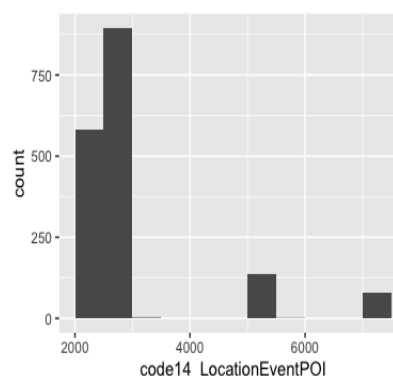
fclass14_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	218243 (99.23 %)
Number of unique values	57
Mode	"clothes"

Observed factor levels: "atm", "attraction", "bakery", "bank", "bar", "bicycle_rental", "bookshop", "cafe", "car_rental", [...], "wayside_shrine".

code14_LocationEventPOI

Feature	Result
Variable type	numeric
Number of missing obs.	218243 (99.23 %)
Number of unique values	58
Median	2515
1st and 3rd quartiles	2303; 2721
Min. and max.	2004; 7218

**name14_LocationEventPOI**

Feature	Result
Variable type	character
Number of missing obs.	218616 (99.4 %)
Number of unique values	112
Mode	"Uva & Menta Café"

Observed factor levels: "100-One", "3Store", "Accademia", "Archivio Storico del Comune di

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Trento", "Arcivescovile", "Arredamenti Bazzanella", [...], "Wind".

"Alternativa", "Amanito", "and", "Angeli Gioielli", [...], "Wind".

fclass15_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	218659 (99.42 %)
Number of unique values	45
Mode	"clothes"

Observed factor levels: "atm", "attraction", "bakery", "bank", "bar", "bicycle_rental", "bookshop", "cafe", "car_rental", [...], "wayside_shrine".

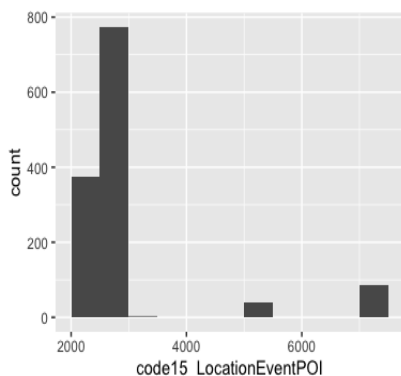
fclass16_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	219042 (99.59 %)
Number of unique values	48
Mode	"clothes"

Observed factor levels: "atm", "attraction", "bakery", "bank", "bar", "bicycle_rental", "bookshop", "cafe", "car_rental", [...], "wayside_shrine".

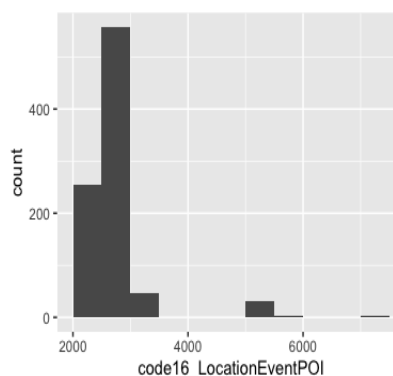
code15_LocationEventPOI

Feature	Result
Variable type	numeric
Number of missing obs.	218659 (99.42 %)
Number of unique values	46
Median	2517
1st and 3rd quartiles	2303; 2601
Min. and max.	2007; 7218



code16_LocationEventPOI

Feature	Result
Variable type	numeric
Number of missing obs.	219042 (99.59 %)
Number of unique values	49
Median	2513
1st and 3rd quartiles	2401; 2567
Min. and max.	2007; 7218



name15_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	218809 (99.49 %)
Number of unique values	94
Mode	"Torre del Massarello"

Observed factor levels: ""New Friends" Kebab", "100-One", "Al 21 del Vò", "Albergo Venezia",

name16_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	219100 (99.62 %)
Number of unique values	77
Mode	"Wind"

Observed factor levels: "3Store", "Adige", "Al 21 del Vò", "Al Caminetto", "Al Duomo", "Al Gusto", "Al Porteghet", "Alimentari B.D.", "Alpia Tourdolomit",

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"Alpina Games", "Amanito", "and", [...], "Zona Industriale Bolzano Sud - Industriezone Bozen Süd".

"Alpina Games", "Amanito", "and", [...], "Zona Industriale Bolzano Sud - Industriezone Bozen Süd".

fclass17_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	219207 (99.67 %)
Number of unique values	39
Mode	"clothes"

Observed factor levels: "atm", "attraction", "bakery", "bank", "bar", "bicycle_rental", "bookshop", "cafe", "car_rental", [...], "wayside_shrine".

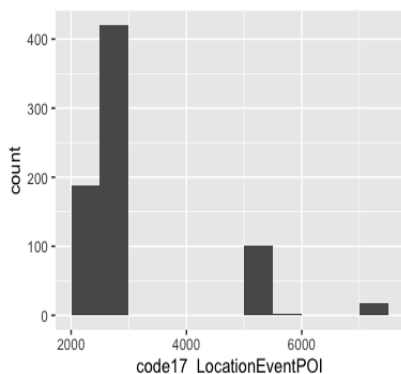
fclass18_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	219358 (99.74 %)
Number of unique values	35
Mode	"clothes"

Observed factor levels: "atm", "attraction", "bakery", "bank", "bar", "bicycle_rental", "bookshop", "cafe", "car_rental", [...], "wayside_shrine".

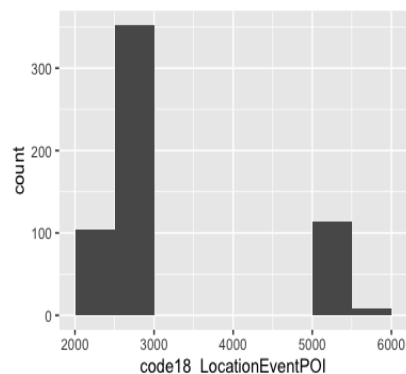
code17_LocationEventPOI

Feature	Result
Variable type	numeric
Number of missing obs.	219207 (99.67 %)
Number of unique values	40
Median	2525
1st and 3rd quartiles	2305; 2724
Min. and max.	2004; 7218



code18_LocationEventPOI

Feature	Result
Variable type	numeric
Number of missing obs.	219358 (99.74 %)
Number of unique values	35
Median	2523
1st and 3rd quartiles	2512; 2735
Min. and max.	2007; 5621



name17_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	219375 (99.74 %)
Number of unique values	58
Mode	"Wind"

Observed factor levels: "3Store", "Adige", "Al 21 del Vò", "Al Caminetto", "Al Duomo", "Al Gusto", "Al Porteghet", "Alimentari B.D.", "Alpia Tourdolomit",

name18_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	219546 (99.82 %)
Number of unique values	55
Mode	"Wind"

Observed factor levels: "3Store", "Adige", "Al 21 del Vò", "Al Caminetto", "Al Duomo", "Al Gusto", "Al Porteghet", "Alimentari B.D.", "Alpia Tourdolomit",

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"Alpina Games", "Amanito", "and", [...], "Zona Industriale Bolzano Sud - Industriezone Bozen Süd".

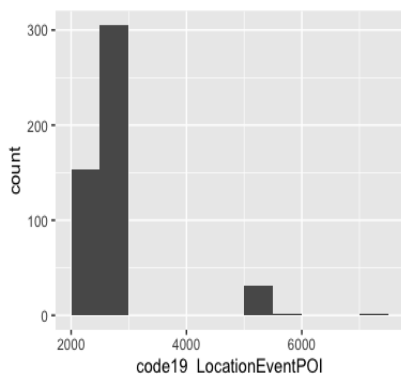
fclass19_LocationEventPOI

Feature	Result
Variable type	character
Number of missing obs.	219442 (99.78 %)
Number of unique values	28
Mode	"clothes"

Observed factor levels: "atm", "attraction", "bakery", "bank", "bar", "bicycle_rental", "bookshop", "cafe", "car_rental", [...], "wayside_shrine".

code19_LocationEventPOI

Feature	Result
Variable type	numeric
Number of missing obs.	219442 (99.78 %)
Number of unique values	28
Median	2512
1st and 3rd quartiles	2303; 2592
Min. and max.	2009; 7202



name19_LocationEventPOI

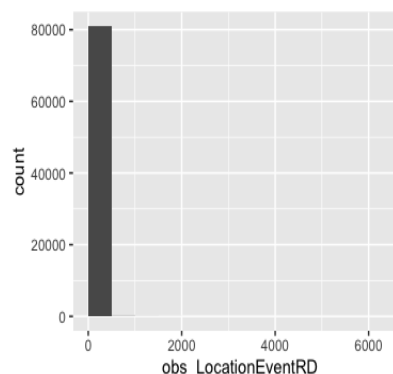
Feature	Result
Variable type	character
Number of missing obs.	219566 (99.83 %)
Number of unique values	39
Mode	"Pace"

Observed factor levels: "3Store", "Adige", "Al 21 del Vò", "Al Caminetto", "Al Duomo", "Al Gusto", "Al Porteghet", "Alimentari B.D.", "Alpia Tourdolomit",

"Alpina Games", "Amanito", "and", [...], "Zona Industriale Bolzano Sud - Industriezone Bozen Süd".

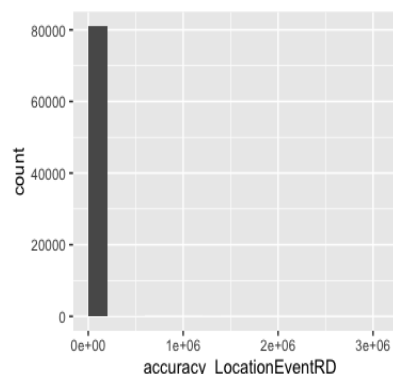
obs_LocationEventRD

Feature	Result
Variable type	integer
Number of missing obs.	138892 (63.15 %)
Number of unique values	502
Median	36
1st and 3rd quartiles	13; 76
Min. and max.	1; 6385



accuracy_LocationEventRD

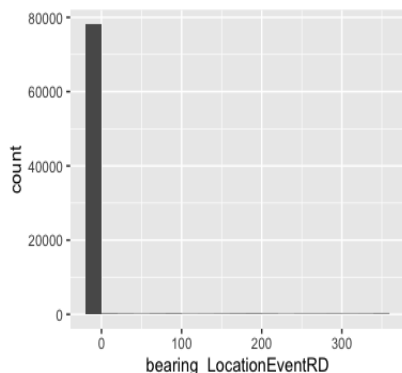
Feature	Result
Variable type	numeric
Number of missing obs.	138892 (63.15 %)
Number of unique values	12893
Median	19.84
1st and 3rd quartiles	18.72; 26.4
Min. and max.	0; 3150550.5



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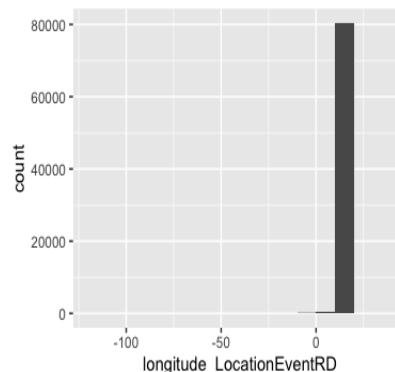
bearing_LocationEventRD

Feature	Result
Variable type	numeric
Number of missing obs.	138892 (63.15 %)
Number of unique values	2603
Median	-1
1st and 3rd quartiles	-1; -1
Min. and max.	-1; 359.9



longitude_LocationEventRD

Feature	Result
Variable type	numeric
Number of missing obs.	138892 (63.15 %)
Number of unique values	3586
Median	11.13
1st and 3rd quartiles	11.12; 11.15
Min. and max.	-115.14; 37.55

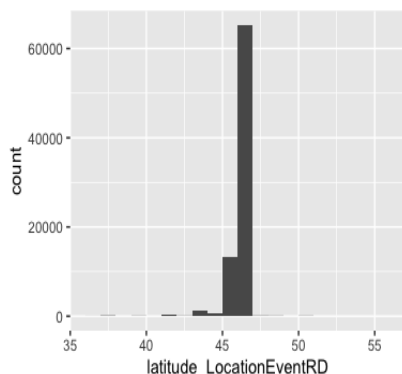


lucene_LocationEventRD

- The variable only takes one value: "NA".

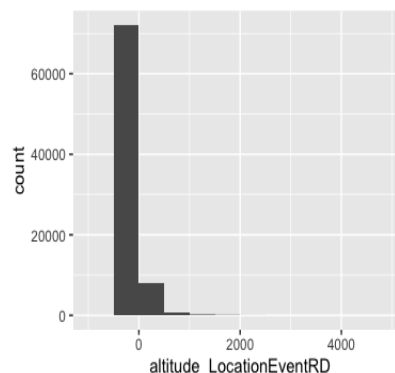
latitude_LocationEventRD

Feature	Result
Variable type	numeric
Number of missing obs.	138892 (63.15 %)
Number of unique values	3222
Median	46.06
1st and 3rd quartiles	46.04; 46.07
Min. and max.	36.17; 55.71



altitude_LocationEventRD

Feature	Result
Variable type	numeric
Number of missing obs.	138892 (63.15 %)
Number of unique values	6411
Median	-1
1st and 3rd quartiles	-1; -1
Min. and max.	-976.74; 4883.12

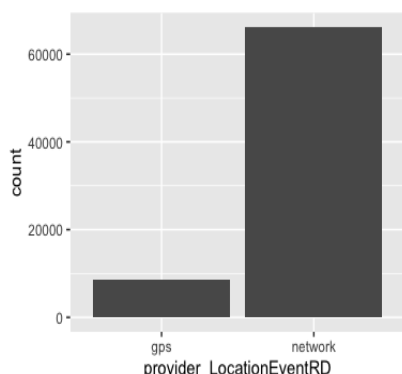


provider_LocationEventRD

Feature	Result
Variable type	character

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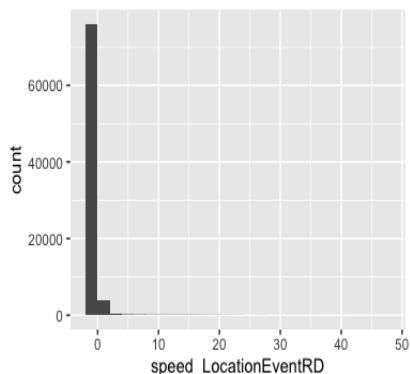
Number of 145199
missing obs. (66.02 %)
Number of 2
unique values
Mode "network"



Observed factor levels: "gps", "network".

speed_LocationEventRD

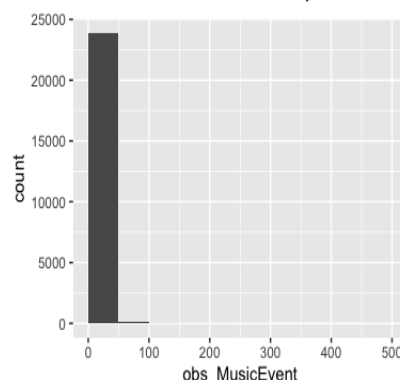
Feature Result
Variable type numeric
Number of 138892
missing obs. (63.15 %)
Number of 1234
unique values
Median -1
1st and 3rd -1; -1
quartiles
Min. and max. -1; 46.42



obs_MusicEvent

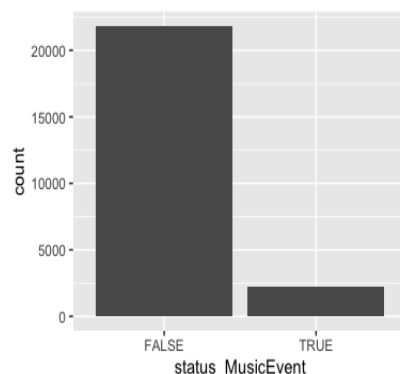
Feature Result
Variable type integer
Number of 195940
missing obs. (89.09 %)
Number of 108
unique values
Median 1

1st and 3rd 1; 3
quartiles
Min. and max. 1; 470



status_MusicEvent

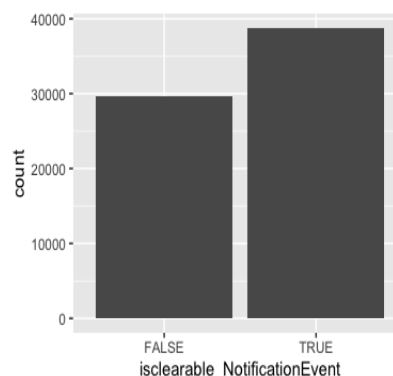
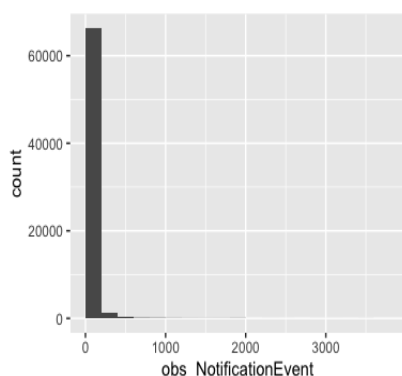
Feature Result
Variable type logical
Number of 195940
missing obs. (89.09 %)
Number of 2
unique values
Mode "NA"



obs_NotificationEvent

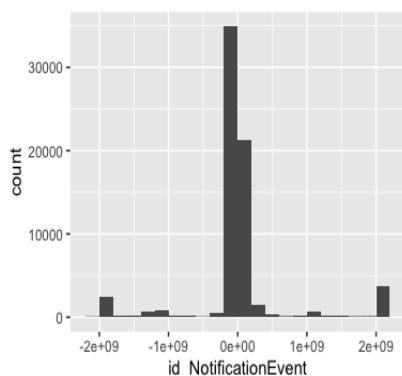
Feature Result
Variable type integer
Number of 151557
missing obs. (68.91 %)
Number of 892
unique values
Median 14
1st and 3rd 4; 40
quartiles
Min. and max. 1; 3744

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id_NotificationEvent

Feature	Result
Variable type	numeric
Number of missing obs.	151557 (68.91 %)
Number of unique values	3242
Median	8
1st and 3rd quartiles	1; 252119
Min. and max.	-2147483647; 2147483647

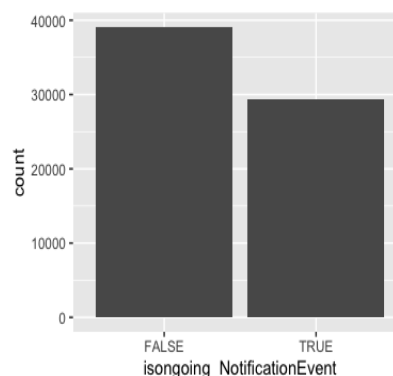


isclearable_NotificationEvent

Feature	Result
Variable type	logical
Number of missing obs.	151557 (68.91 %)
Number of unique values	2
Mode	"NA"

isongoing_NotificationEvent

Feature	Result
Variable type	logical
Number of missing obs.	151557 (68.91 %)
Number of unique values	2
Mode	"NA"



package_NotificationEvent

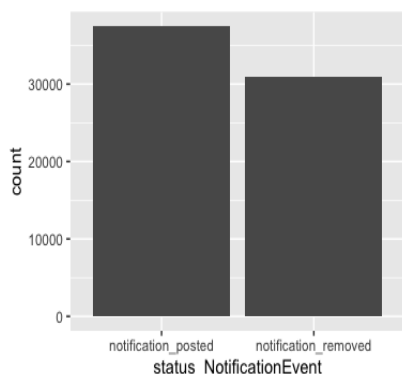
Feature	Result
Variable type	character
Number of missing obs.	151557 (68.91 %)
Number of unique values	453
Mode	"com.whatsapp"

Observed factor levels: "android", "ar.teovogel.yip", "armworkout.armworkoutformen.armexercises", "au.com.shiftyjelly.pocketcasts", "au.com.tinmangames.choices", "bbc.mobile.news.ww", "blacknote.mibandmaster", [...], "workout.homeworkouts.workouttrainer".

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status_NotificationEvent

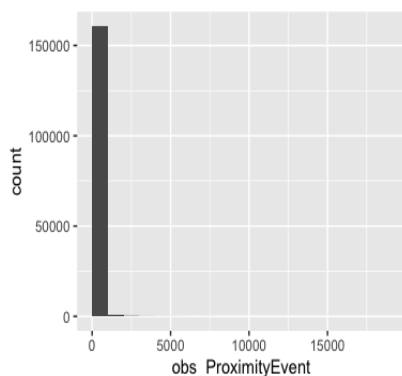
Feature	Result
Variable type	character
Number of missing obs.	151557 (68.91 %)
Number of unique values	2
Mode	"notification_posted"



- Observed factor levels: "notification_posted", "notification_removed".

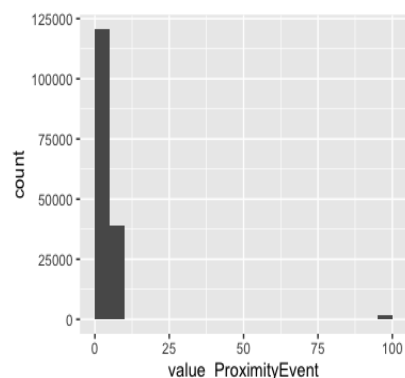
obs_ProximityEvent

Feature	Result
Variable type	integer
Number of missing obs.	58134 (26.43 %)
Number of unique values	1842
Median	16
1st and 3rd quartiles	4; 48
Min. and max.	1; 18983



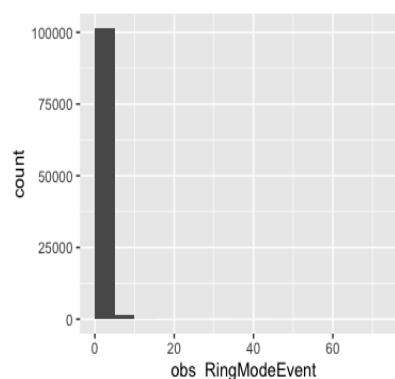
value_ProximityEvent

Feature	Result
Variable type	numeric
Number of missing obs.	58134 (26.43 %)
Number of unique values	10
Median	5
1st and 3rd quartiles	0; 6
Min. and max.	0; 100



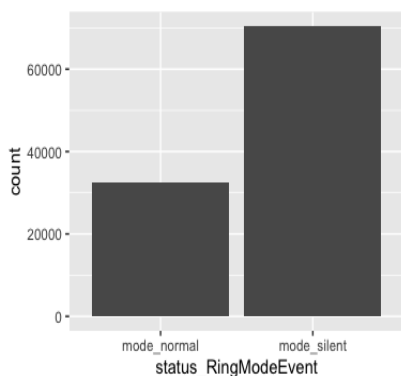
obs_RingModeEvent

Feature	Result
Variable type	integer
Number of missing obs.	117059 (53.22 %)
Number of unique values	36
Median	1
1st and 3rd quartiles	1; 3
Min. and max.	1; 72



status_RingModeEvent

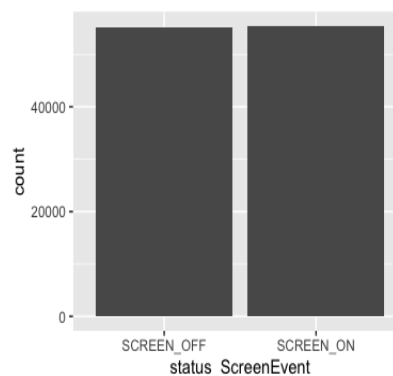
Feature	Result
Variable type	character
Number of missing obs.	117059 (53.22 %)
Number of unique values	2
Mode	"mode_silent"



- Observed factor levels: "mode_normal", "mode_silent".

status_ScreenEvent

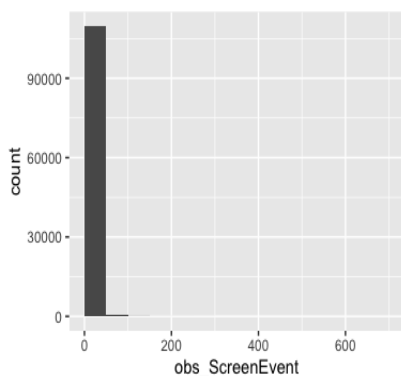
Feature	Result
Variable type	character
Number of missing obs.	109385 (49.73 %)
Number of unique values	2
Mode	"SCREEN_ON"



- Observed factor levels: "SCREEN_OFF", "SCREEN_ON".

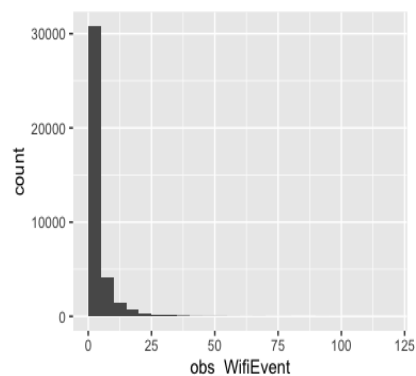
obs_ScreenEvent

Feature	Result
Variable type	integer
Number of missing obs.	109385 (49.73 %)
Number of unique values	163
Median	7
1st and 3rd quartiles	4; 14
Min. and max.	1; 688



obs_WifiEvent

Feature	Result
Variable type	integer
Number of missing obs.	181968 (82.74 %)
Number of unique values	82
Median	2
1st and 3rd quartiles	1; 4
Min. and max.	0; 116



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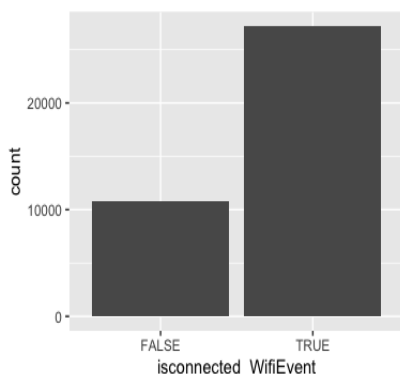
bssid_WifiEvent

Feature	Result
Variable type	character
Number of missing obs.	182591 (83.02 %)
Number of unique values	3077
Mode	"64:59:f8:40:d5:58"

Observed factor levels: "00:00:00:00:00:00", "00:05:1d:03:04:05", "00:05:9e:15:cf:50", "00:07:7d:d2:b3:b1", "00:07:7d:d2:b3:be", "00:07:7d:d2:bb:f0", "00:07:7d:d2:bb:f1", "00:07:7d:d2:bb:fe", "00:0b:6b:22:8c:10", "00:0b:6b:2e:fd:66", "00:0b:6b:2e:fd:c4", [...], "fc:ec:da:1e:79:77", "fe:ec:da:11:fe:b6", "True".

isconnected_WifiEvent

Feature	Result
Variable type	logical
Number of missing obs.	181971 (82.74 %)
Number of unique values	2
Mode	"NA"



ssid_WifiEvent

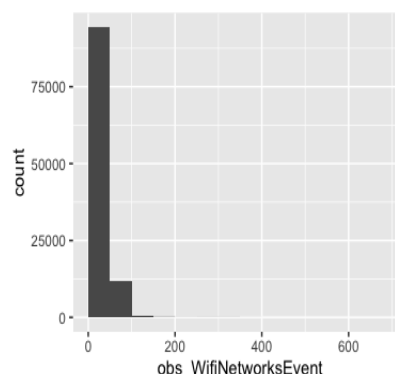
Feature	Result
Variable type	character
Number of missing obs.	181968 (82.74 %)
Number of unique values	548
Mode	"...306bfb71e2"

Observed factor levels:
"00e6822ef10e613fa8f6fd10c2043db3053716b168

02dcb09a88bc0f4e860ff2",
"019bbcb449b671e2b2260e7134372a35a08d6f9e
9401f4c24e38df367f8b8490",
"030ec82a49c8288f4285b6aea8b77bb7624f70053
8d1d5011fadb93e9cf53427",
"031c3eb1bc6a9ddfff1821d4487d74ce4710526e88
4d4c8cef2b721c14f4e7e0", [...],
"ffeba27a582b7ddeb435cd2c54ab1f759ac44513f2
847225d976b3e9948d230f".

obs_WifiNetworksEvent

Feature	Result
Variable type	integer
Number of missing obs.	113084 (51.42 %)
Number of unique values	273
Median	19
1st and 3rd quartiles	7; 33
Min. and max.	1; 681



address_WifiNetworksEvent

Feature	Result
Variable type	character
Number of missing obs.	113084 (51.42 %)
Number of unique values	19668
Mode	"...3acff96f903"

Observed factor levels:
"0002c6720b03e63f1daf4cfcb435344520374dcf0
89a7b154685e985fff1b47",
"00040f3f101c187b8d357834acf4c654bd798017e
1494196c006dd9e8054e345",
"00065e79f4d66aaadbcd69d7856384566c9022bfd
78c381543b0b6e60d61cfa2",
"000a66ab1a028ca542f7cddf9ad677e8401321088
135bc7c9b970a6fa2ebc5a1",
"000b034d6f06657aeace22963a38811054168b73
a8a0285d13fb4744ca88e9b3", [...]
"fffbf392be52f893149a99d9cd777f082fdc8d95da4
c38ceb61c1051a4f55282".

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capabilities_WifiNetworksEvent

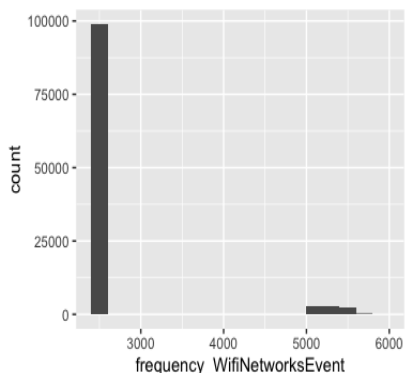
Feature	Result
Variable type	character
Number of missing obs.	113086 (51.42 %)
Number of unique values	294
Mode	"[u'ESS']"

Observed factor levels: "['ESS' 'BLE']", "['ESS' 'P2P']", "['ESS' 'WPS']", "['ESS']", "['IBSS']", "['WEP' 'ESS' 'BLE']", "['WEP' 'ESS' 'WPS']", [...], "[WPS, WEP, ESS]".

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frequency_WifiNetworksEvent

Feature	Result
Variable type	numeric
Number of missing obs.	113084 (51.42 %)
Number of unique values	36
Median	2437
1st and 3rd quartiles	2412; 2462
Min. and max.	2412; 5825



name_WifiNetworksEvent

Feature	Result
Variable type	character
Number of missing obs.	116548 (52.99 %)
Number of unique values	11318
Mode	"Vodafone-WiFi"

Observed factor levels: " ", "INTERNET FREE", "_BBSOFT", "_BSOFT", "_Despar_Tribu", "_EXT", "_FreeWifi_BGYairport", "_Grifonet", "_MIMA_NET_2", "_Noventa Free WiFi", "——", "—2G", "—WIFI—", [...], "zzo guardi".

rss_i_WifiNetworksEvent

Feature	Result
Variable type	numeric
Number of missing obs.	113084 (51.42 %)
Number of unique values	85
Median	-87
1st and 3rd quartiles	-90; -80
Min. and max.	-101; 0

