Preprocessing

Admin

24 4 2019

Raw Dataset

Data Frame Summary

data

Dimensions: 4521×17

Duplicates: 0

No	Variable	Stats / Values	Freqs (% of Valid)	Graph	Valid	Missing
1	$_{ m age}$ [integer]	Mean (sd): 41.2 (10.6) min < med < max: 19 < 39 < 87 IQR (CV): 16 (0.3)	67 distinct values		4521 (100%)	0 (0%)
2	job [factor]	 admin. blue-collar entrepreneur housemaid management retired self-employed services student technician others 	478 (10.6%) 946 (20.9%) 168 (3.7%) 112 (2.5%) 969 (21.4%) 230 (5.1%) 183 (4.0%) 417 (9.2%) 84 (1.9%) 768 (17.0%) 166 (3.7%)		4521 (100%)	0 (0%)
3	marital [factor]	 divorced married single 	528 (11.7%) 2797 (61.9%) 1196 (26.5%)		4521 (100%)	0 (0%)

No	Variable	Stats / Values	Freqs (% of Valid)	Graph	Valid	Missing
4	education [factor]	 primary secondary tertiary unknown 	678 (15.0%) 2306 (51.0%) 1350 (29.9%) 187 (4.1%)		4521 (100%)	0 (0%)
5	default [factor]	1. no 2. yes	4445 (98.3%) 76 (1.7%)		4521 (100%)	0 (0%)
6	balance [integer]	Mean (sd): 1422.7 (3009.6) min < med < max: -3313 < 444 < 71188 IQR (CV): 1411 (2.1)	2353 distinct values		4521 (100%)	0 (0%)
7	housing [factor]	1. no 2. yes	1962 (43.4%) 2559 (56.6%)		4521 (100%)	0 (0%)
8	loan [factor]	1. no 2. yes	3830 (84.7%) 691 (15.3%)		4521 (100%)	0 (0%)
9	contact [factor]	 cellular telephone unknown 	2896 (64.1%) 301 (6.7%) 1324 (29.3%)		4521 (100%)	0 (0%)
10	day [integer]	Mean (sd): 15.9 (8.2) min < med < max: 1 < 16 < 31 IQR (CV): 12 (0.5)	31 distinct values		4521 (100%)	0 (0%)

No	Variable	Stats / Values	Freqs (% of Valid)	Graph	Valid	Missing
11	month [factor]	1. apr 2. aug 3. dec 4. feb 5. jan 6. jul 7. jun 8. mar 9. may 10. nov [2 others]	293 (6.5%) 633 (14.0%) 20 (0.4%) 222 (4.9%) 148 (3.3%) 706 (15.6%) 531 (11.7%) 49 (1.1%) 1398 (30.9%) 389 (8.6%) 132 (2.9%)		4521 (100%)	0 (0%)
12	duration [integer]	Mean (sd): 264 (259.9) min < med < max: 4 < 185 < 3025 IQR (CV): 225 (1)	875 distinct values		4521 (100%)	0 (0%)
13	campaign [integer]	Mean (sd): $2.8 (3.1)$ min $<$ med $<$ max: 1 < 2 < 50 IQR (CV): 2 (1.1)	32 distinct values		4521 (100%)	0 (0%)
14	pdays [integer]	Mean (sd): 39.8 (100.1) min < med < max: -1 < -1 < 871 IQR (CV): 0 (2.5)	292 distinct values		4521 (100%)	0 (0%)
15	previous [integer]	Mean (sd): $0.5 (1.7)$ min < med < max: 0 < 0 < 25 IQR (CV): 0 (3.1)	24 distinct values		4521 (100%)	0 (0%)
16	poutcome [factor]	 failure other success unknown 	490 (10.8%) 197 (4.4%) 129 (2.9%) 3705 (82.0%)		4521 (100%)	0 (0%)

No	Variable	Stats / Values	Freqs (% of Valid)	Graph	Valid	Missing
17	y [factor]	1. no 2. yes	4000 (88.5%) 521 (11.5%)		4521 (100%)	0 (0%)