

#### Attribute information For bank dataset

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Input variables:
# bank client data:
1 - age (numeric)
2 - job : type of job (categorical:
"admin.", "unknown", "unemployed", "management", "housemaid", "entrepreneur", "student",
"blue-collar", "self-
employed", "retired", "technician", "services")
3 - marital : marital status (categorical: "married", "divorced", "single"; note: "divorced"
means divorced or widowed)
4 - education (categorical: "unknown", "secondary", "primary", "tertiary")
5 - default: has credit in default? (binary: "yes", "no")
6 - balance: average yearly balance, in euros (numeric)
7 - housing: has housing loan? (binary: "yes", "no")
8 - loan: has personal loan? (binary: "yes", "no")
# related with the last contact of the current campaign:
9 - contact: contact communication type (categorical: "unknown", "telephone", "cellular")
10 - day: last contact day of the month (numeric)
11 - month: last contact month of year (categorical: "jan", "feb", "mar", ..., "nov", "dec")
12 - duration: last contact duration, in seconds (numeric)
# other attributes:
13 - campaign: number of contacts performed during this campaign and for this client (numeric,
includes last contact)
14 - pdays: number of days that passed by after the client was last contacted from a previous
campaign (numeric, -1 means client was not previously contacted)
15 - previous: number of contacts performed before this campaign and for this client (numeric)
16 - poutcome: outcome of the previous marketing campaign (categorical:
"unknown", "other", "failure", "success")

Output variable (desired target):
17 - y - has the client subscribed a term deposit? (binary: "yes", "no")
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8. Missing Attribute Values: None