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Understanding the dataset

Data Set Information

The data is related to direct marketing campaigns of a Portuguese banking institution. The marketing campaigns were based on phone calls. Often, more than one contact to the same client was required, in order to access if the product (bank term deposit) would be subscribed ('yes') or not ('no') subscribed.

There are two datasets: train.csv with all examples (32950) and 21 inputs including the target feature, ordered by date (from May 2008 to November 2010), very close to the data analyzed in [Moro et al., 2014]

test.csv which is the test data that consists of 8238 observations and 20 features without the target feature

Goal:- The classification goal is to predict if the client will subscribe (yes/no) a term deposit (variable y).

Features

Feature	Feature_Type	Description
age	numeric	age of a person
job	Categorigol,nominal	type of job ('admin.','blue-collar','entrepreneur','housemaid','management','retired','self- employed','services','student','technician','unemployed','unknown')
marital	categorical,nominal	marital status ('divorced', 'married', 'single', 'unknown'; note: 'divorced' means divorced or widowed)
education	categorical,nominal	('basic.4y','basic.6y','basic.9y','high.school','illiterate','professional.course','university.degree','unknown')
default	categorical,nominal	has credit in default? ('no','yes','unknown')
housing	categorical,nominal	has housing loan? ('no','yes','unknown')
loan	categorical,nominal	has personal loan? ('no','yes','unknown')
contact	categorical,nominal	contact communication type ('cellular', 'telephone')
month	categorical,ordinal	last contact month of year ('jan', 'feb', 'mar',, 'nov', 'dec')
day_of_week	categorical,ordinal	last contact day of the week ('mon','tue','wed','thu','fri')
duration	numeric	last contact duration, in seconds . Important note: this attribute highly affects the output target (e.g., if duration=0 then y='no')
campaign	numeric	number of contacts performed during this campaign and for this client (includes last contact)
pdays	numeric	number of days that passed by after the client was last contacted from a previous campaign (999 means client was not previously contacted)
previous	numeric	number of contacts performed before this campaign and for this client
poutcome	categorical,nominal	outcome of the previous marketing campaign ('failure', 'nonexistent', 'success')
emp.var.rate	numeric	employment variation rate - quarterly indicator
cons.price.idx	numeric	consumer price index - monthly indicator
cons.conf.idx	numeric	consumer confidence index - monthly indicator
euribor3m	numeric	euribor 3 month rate - daily indicator
nr.employed	numeric	number of employees - quarterly indicator

Target variable (desired output):

Feature	Feature_Type	Description
у	binary	has the client subscribed a term deposit? ('yes','no')

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