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Problem description and Business understanding

ABC Bank wants to sell its term deposit product to customers and before launching the product they want to develop a model which help them in understanding whether a particular customer will buy their product or not (based on customer's past interaction with bank or other Financial Institution).

Adopting business proposals to boost sales of the deposit products

Project lifecycle along with deadline

TASK	TIMELINE
Business and Data Understanding	7/18/22
Exploratory data Analysis	7/24/22
Data Preparation	
Model Building	8/1/22
Model Selection	0, 1, 22
Performance reporting	8/5/22
Deploy the model	
Presentation	8/8/22

Data Intake report

The data is related with 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 ('yes') or not ('no') subscribed.

There are four datasets:

- 1) bank-additional-full.csv with all examples (41188) and 20 inputs, ordered by date (from May 2008 to November 2010), very close to the data analyzed in [Moro et al., 2014]
- 2) bank-additional.csv with 10% of the examples (4119), randomly selected from 1), and 20 inputs.
- 3) bank-full.csv with all examples and 17 inputs, ordered by date (older version of this dataset with less inputs).
- 4) bank.csv with 10% of the examples and 17 inputs, randomly selected from 3 (older version of this dataset with less inputs).

The smallest datasets are provided to test more computationally demanding machine learning algorithms (e.g., SVM).

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

Github Repo link

https://github.com/Shinuing/Bank-Marketing-Campaign-Prediction