CUSTOMER CLASSIFICATION FOR DIRECT BANK MARKETING

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European Banks were under pressure to increase their financial assets due to the :

- 1 Internal competition
- 2 financial crisis

They offered long term deposits with good interest rates to the people using *direct marketing strategy*, but contacting many people is





low success rate



Our goal to build a Machine Learning model that learns the unknown patterns and predicts whether customer will subscribe (yes/no) a term deposit that helps:







## **Data Understanding**

This data based on direct marketing campaigns of a Portuguese banking institution.

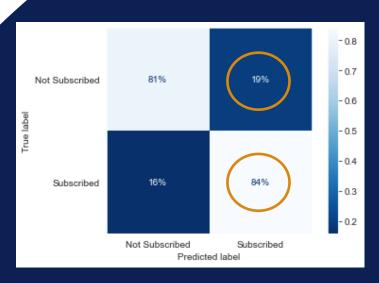
The marketing campaigns are based on phone calls, which occurred from *May 2008* to *November 2010*.



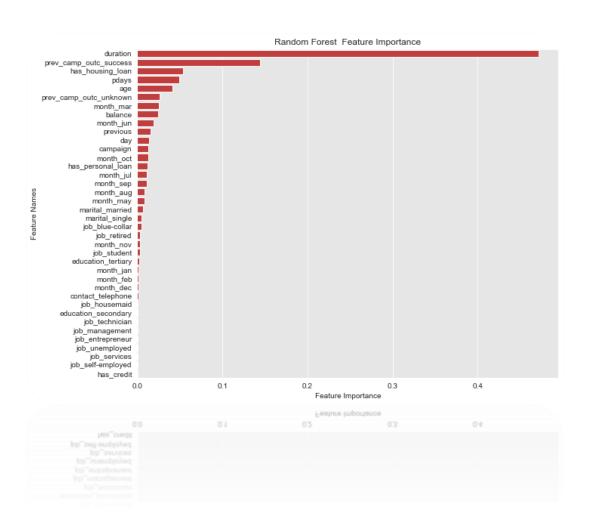




## Conclusion



**Final model can perform 84% correctly** classifications of the "Yes" class or potential clients that are willing to subscribe a term deposit.



### **Recommendations**

- Develop a marketing strategies during the Calls like:
- providing an interesting questionnaire for potential clients during the calls which increases conversation length
- monitoring call activity and conversations
- adding contextual call routing strategies to the marketing campaigns



#### Recommendations

 The successful outcome of the previous marketing campaign did positively affect customers to subscribe to upcoming campaigns.

I would highly recommend to develop a loyalty program for the previously subscribed clients by giving them some bonuses and unique offers.



#### **Recommendations**

House Loans and Balances



Potential clients in the average and high balances are less likely to have a house loan and therefore, more likely to open a term deposit. Lastly, the next marketing campaign should focus on individuals of average and high balances in order to increase the likelihood of subscribing to a term deposit

## **THANK YOU!**

## Do you have any questions?

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