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.

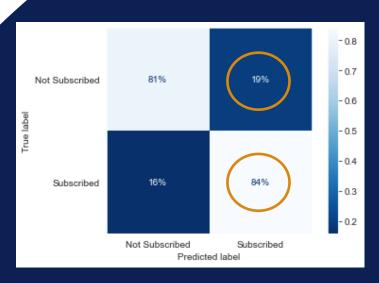
The marketing campaigns are based on phone calls, which occurred from *May 2008* to *November 2010*.



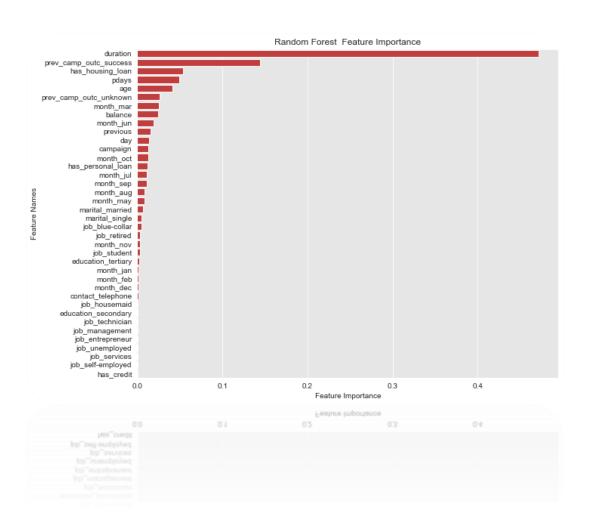




Conclusion



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

Future Considerations

More descriptive features can be useful here for example interview summary. In that case natural language processing will give better results.



THANK YOU!

Do you have any questions?

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