



Statement

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Function & Objective

 Direct marketing campaign from a Portuguese financial institution.

 Campaigns were conducted via phone calls

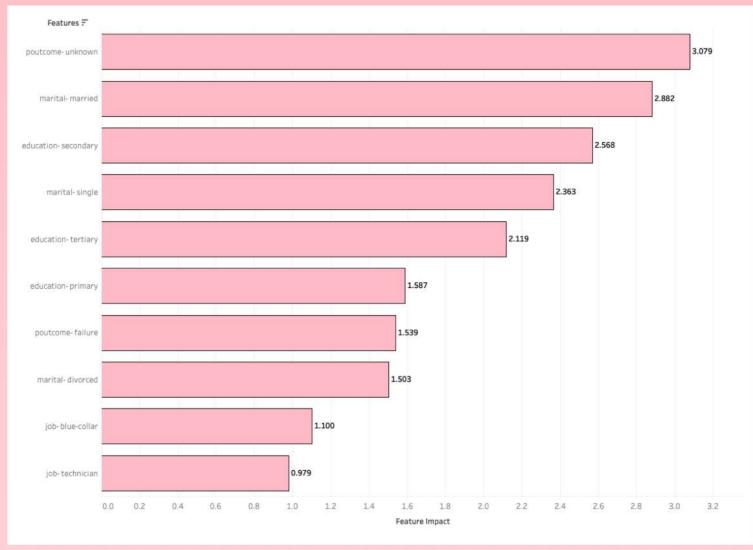
 Classify if a client will subscribe to a term deposit (i.e CD, Guaranteed Investment Certificate, Bond, etc.)*



*Class Imbalance with target value: leveraged SMOTE Oversampling.

Machine Learning Repo: <u>UCI</u>

Feature Importance

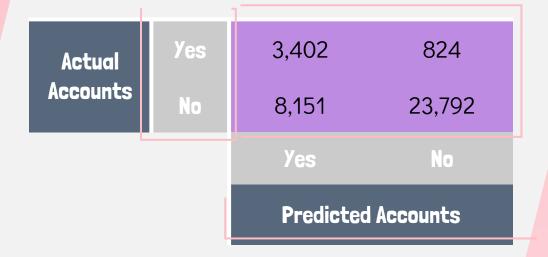




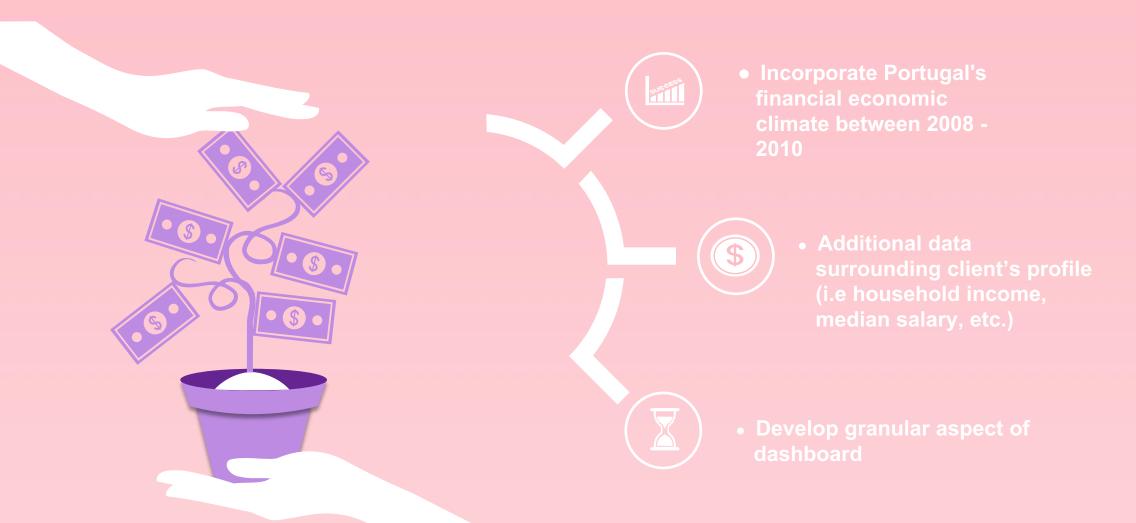
Model Predictions

- Decision Threshold: 0.1
- Recall: The model is currently predicting the positive class (Yes) correctly at a ratio of .80
- The accuracy ratio of the model is
 .75
- F1 score: .43

Confusion Matrix



Future Work





Any Questions?
THANK YOU



Resources:

Github: https://github.com/jblezin/Portuguese_Banking

Tableau Dashboard: https://public.tableau.com/profile/jblezin#!/vizhome/Book1_15965182102290/PortugueseBanking