

Bank Marketing Data



The Outliers

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Background and Insights

RFM Analysis and Profiling

Direct marketing in the financial services industry revolves around extensive profiling of consumers based on recency, frequency and monetary analysis:

- How frequently a consumer purchases a certain product (personal loans, direct deposits etc,)
- How frequent do the purchases happen
- What is the transaction/balance profile of customers

Predictive Modelling Need

Propensity and risk score modeling are the two more popular focus areas of financial services companies including the bureaus for target marketing

Main business need area in direct marketing for personal financial products: Successful lead generation and ranking of best performing individuals based on propensity scores off of credit bureau lists of 300M+ individuals from the entire country => Challenging with binary response/conversion models given response rates, imbalances, and variety of segmentations

Key Insights

Punchline of the study for us:

The Portuguese Banks or the U.S banks, the data is telling us the base criteria for lead segmentation are consistent!

- Balance amount is exceptionally important (1400s and above increases likelihood of subscription)

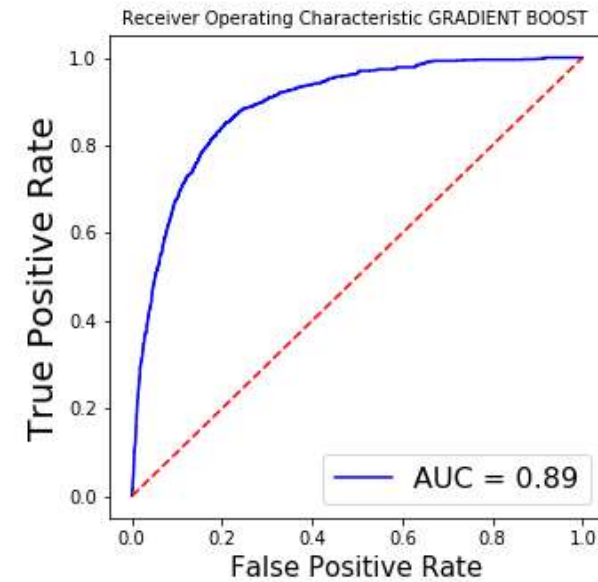
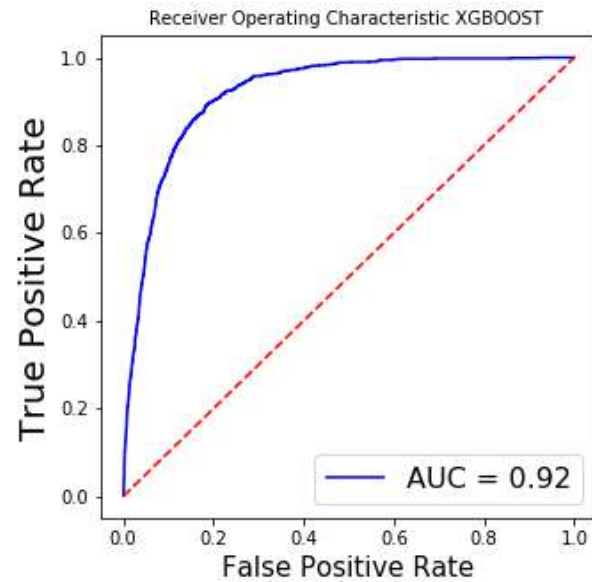
Did you know the bureaus segment further with unsecured and revolving installment balance and increase their accuracy significantly? Anyone guess what the updates on the Portuguese bank marketing data were in terms of data collection?

- Past personal loan sign ups: frequency of signups
- Contact time and recency of receiving a financial service
- Age: important segmentation attribute

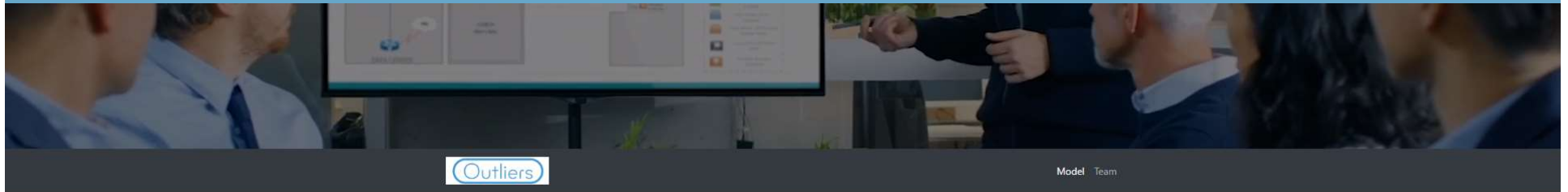


Accuracy: Not an appropriate measure in this industry
Best kind of analysis for translating results to the business is by lift analysis of deciles

ROC Curves are the best option



Our App: Outlier



Score Assessment

Age	Balance
Campaign	Number Previous Contacts
Duration	Past Credit Defaults Yes
Occupation Choose...	Marital Status Choose...
Education Choose...	Days Since Last Reach Out Choose...
House Ownership Yes	Past Personal Loan Conversions Yes
Contact Preference Choose...	Outcome of Last Reach Out Choose...
Last Contact Day of Month Choose...	Month Choose...
Generate	

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