

How Can We Increase Marketing Campaign Response Rate

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Agenda

How did I approach this project?

Define
Objective

Data
Cleaning
and
Preparation

EDA

Modeling

Evaluation

Objective

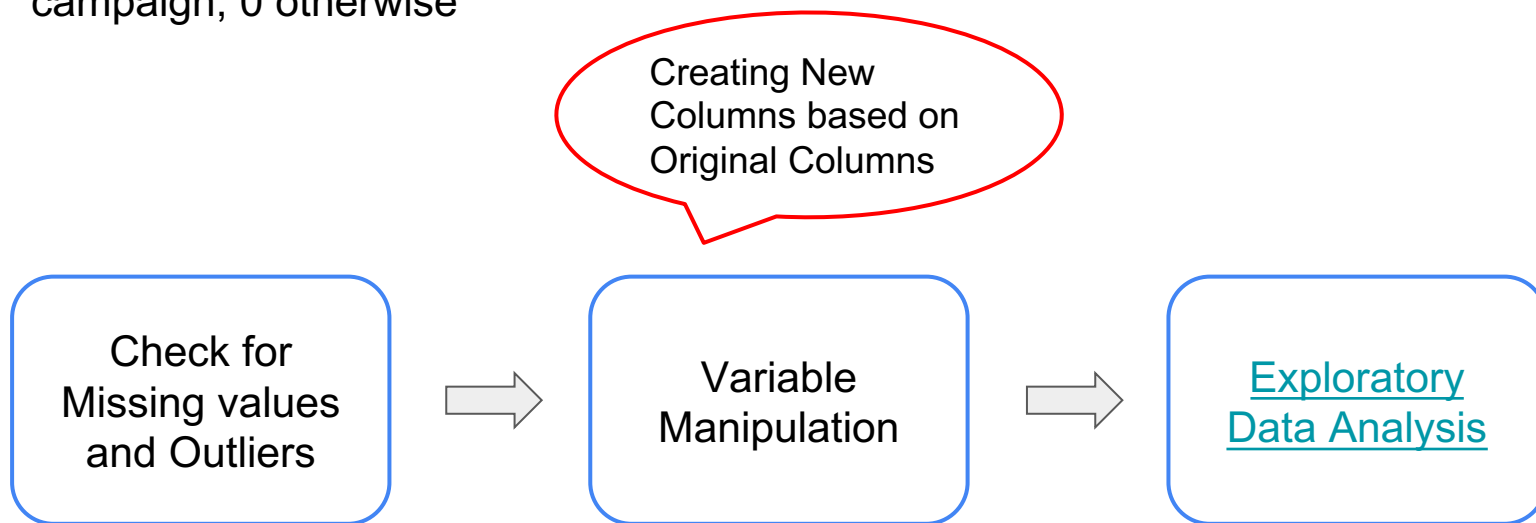
Maximize Campaign Utility

Design a Model-Based Targeting Strategy
to Target the Right Customers

Data Preparation & EDA

Kaggle with 2240 observations and 29 variables

Dependent Variable: Response, 1 if the customer accepts the offer in the last campaign, 0 otherwise



Modeling

Logistic Regression, Decision Tree, Random Forest

Training Dataset and Test Dataset
Lasso Variable Selection
Post-Lasso Models

Evaluation

Confusion Matrix

For Logistic Regression:

	Response	
pred	0	1
0	352	58
1	30	8

[1] 0.8035714

For Decision Tree:

	Response	
pred	0	1
0	369	49
1	13	17

[1] 0.8616071

For Random Forest:

	Response	
pred	0	1
0	366	42
1	16	24

[1] 0.8905357

Previous Campaign Response Rate, Recency, Amount of Meat, Gold and Fruit Purchases are important predictors.

Things to Consider...

- [illegible]

Q & A

Any Questions?



Thank you so much for listening!