FUNDRAISING USING SAS AND PYTHON

Data preprocessing

Data used for the models:
'Age, Salary, Contact, TotalGift, MinGift,
GaveLastYear, AmtLastYear, Woman, NbActivities

Filled NaN values with zeros for columns: TotalGift, MinGift

Round 1

Models tried:

- Lineal Regression
- KMeans + Lineal Regression
- Bayesian Ridge Regression

Best models

Best MAE: Lineal Regression Best MSE: Bayesian Ridge

Regression

Best RMSE: Bayesian Ridge

Regression

Chosen Model

Bayesian Ridge Regression

Round 2: Amount

Models tried to predict:

- Lineal Regression
- Regression Tree
- Bayesian Ridge Regression

Round 2: Probability

Models tried to predict:

- Logistic Regression
- Decision Tree
- Stochastic gradient descent (SGD)

Total rased

\$7,602,655.00

Scores

MAE: 63.972 MSE: 54373.267 RMSE: 233.181

