Leads Scoring Case Study By Parthajit Basu

Steps involved while creating the model

- 1) Data Cleaning
- 2) Data Transformation
- 3) Data Preparation
- 4) Model Building
- 5) Model Evaluation

Data Cleaning

- First we tried to check Null values in columns
- Then we tried to check which all columns have "Select" key word and converted them to NULL
- Later tried to get percentage of Null in all columns
- Later we tried to replace null values in columns based on highest mode value in each column

 We tried few approaches to trim down redundant values in columns to certain category

Data Transformation

- Checked the outliers and created bins for them.
- Removed all the redundant and repeated columns.
- Changed the multi category labels into dummy variables and binary variables into '0' and '1'.

Data Preparation

- Split the dataset into train and test dataset
- Scaled necessary date set

Model Building

- We created our model with 15 variables which is standard process
- We tried to check confusion matrix, accuracy, VIF. Based on VIF score deleted columns which have more than 5 VIF points.
- Rebuilding the model again and tried to find confusion matrix, Accuracy, VIF, Sensitivity, Specificity
- Tried to check ROC curve and tried to find cutoff value

Model Evaluation

- We did model evaluation on the test set like checking the accuracy, recall/sensitivity to find how the model is performing
- We found the score of accuracy and sensitivity from our final test model is totally in acceptable range.

We have given lead score to the test dataset for indication that high lead score are hot leads and low lead score are not hot leads.