LEAD SCORING ASSIGNMENT

SUMMARY

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OBJECTIVE:

This analysis is done for X Education and to find ways to get more industry professionals to join their courses. The basic data provided gave us a lot of information about how the potential customer visit the site, the time they spend on the site, how they reached the site and the conversion rate

STEP BY STEP APPROACH:

Below steps are followed

Step 1: Cleaning Data

The data was cleaned to remove null values.

Step 2: EDA

EDA was done to check the condition of data. It was found that a lot of elements in the categorical variables were irrelevant. Numeric values are good, no much of outliers seen

Step 3: Dummy Variables

Dummy variables were created and later removed. For numeric values, MinMaxScaler is used

Step 4: Train-Test Split

The split was done at 70% for train and 30% for test

Step 5: Model Building

RFE was done to attain the top 15 relevant variables. Rest of the variables are removed manually depending on the VIF valyes and p-value.

Step 6: Model Evaluation

A matrix was made and the optimum cutoff value was used to find accuracy, sensitivity and specifiticy which came to be around 81%

Step 7: Prediction

Prediction was made on test data frame with an optimum cutoff as 0.4 with accuracy, sensitivity and specificity of 80%

Step 8: Precision - Recall

This method is used to recheck and a cutoff of 0.41 was found with precision around 80.87% and recall around 81.88% on the test data frame

FINDINGS:

Variables that mattered the most are:

- 1. Total time spent on website
- 2. Total number of visits
- 3. When the lead source was:
 - a. Olark chat
 - b. Wellingak website
- 4. When the last activity was:
 - a. SMS
 - b. Olark chat conversation
- 5. When the lead origin is Lead add form
- 6. When the current occupation was:
 - a. Working professionals
 - b. Student
 - c. Unemployed
 - d. Other

CONCLUSION:

Based on above findings, X education can operate and increase their buyers through the potential leads