

Summary

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 customers visit the site, the time they spend there, how they reach the site and the conversion rate.

The following are the steps used:

1. **Cleaning data:**

The data was partially clean except for a few null values and the option select had to be replaced with a null value since it did not give us much information. Few of the null values were changed to 'not provided' so as to not lose much data. Although they were later removed while making dummies. Since there were many from India and few from outside, the elements were categorized to 'India', 'Outside India' and 'not provided'.

2. **EDA:**

A quick EDA was done to check the condition of our data. It was found that a lot of elements in the categorical variables were irrelevant. The numeric values looks good and no outliers were found.

3. **Dummy Variables:**

The dummy variables were created and later on the dummies with 'not provided' elements were removed. For numeric values we used the MinMaxScaler.

4. **Train-Test split:**

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

5. **Model Building:**

Firstly, RFE was done to attain the top 15 relevant variables.