# LEAD SCORE CASE STUDY

BY

HARSHITHA M R

SOMESH SINGH

HIRAL SINGH

## PROBLEM STATEMENT

- An education company named X Education sells online courses to industry professionals. On any given day, many professionals who are interested in the courses land on their website and browse for courses.
- browse the courses or fill up a form for the course or watch some videos. When these people fill up a form providing their email address or acquired, employees from the sales team start making calls, writing emails, etc. Through this process, some of the leads get converted while The company markets its courses on several websites and search engines like Google. Once these people land on the website, they might phone number, they are classified to be a lead. Moreover, the company also gets leads through past referrals. Once these leads are most do not. The typical lead conversion rate at X education is around 30%.
- Now, although X Education gets a lot of leads, its lead conversion rate is very poor. For example, if, say, they acquire 100 leads in a day, only Hot Leads'. If they successfully identify this set of leads, the lead conversion rate should go up as the sales team will now be focusing more on about 30 of them are converted. To make this process more efficient, the company wishes to identify the most potential leads, also known as communicating with the potential leads rather than making calls to everyone.
- customers. The company requires you to build a model wherein you need to assign a lead score to each of the leads such that the customers with a higher lead score have a higher conversion chance and the customers with a lower lead score have a lower conversion chance. The X Education has appointed you to help them select the most promising leads, i.e. the leads that are most likely to convert into paying CEO, in particular, has given a ballpark of the target lead conversion rate to be around 80%.

# GOALS OF THE CASE STUDY

• There are quite a few goals for this case study:

would mean that the lead is hot, i.e. is most likely to convert whereas a lower score would 1.Build a logistic regression model to assign a lead score between 0 and 100 to each of the leads which can be used by the company to target potential leads. A higher score mean that the lead is cold and will mostly not get converted. 2.There are some more problems presented by the company which your model should be able to adjust to if the company's requirement changes in the future so you will need to handle these as well

STEPS

1.Data Preparation

2.Data Cleaning

3.Univariate Analysis

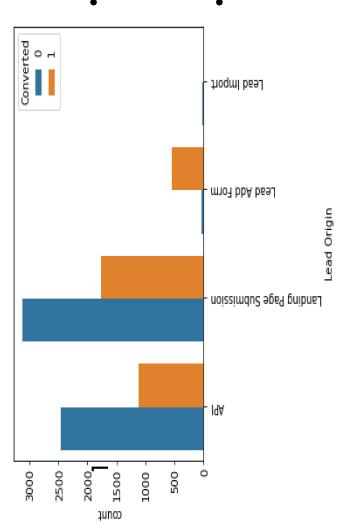
4.Data Splitted to Train and Test data

5.Feature Scaling

6.Model Building

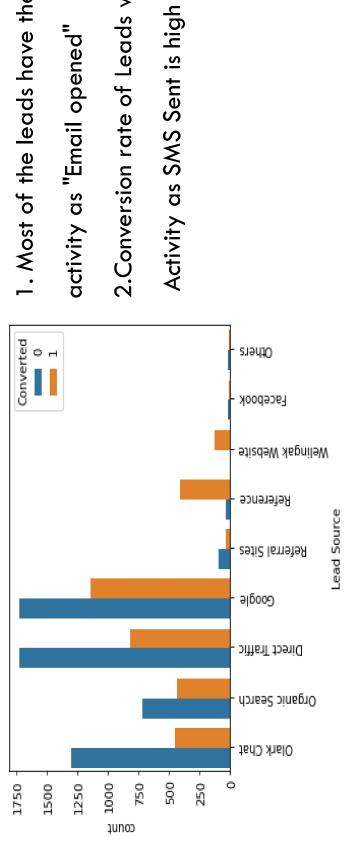
## UNIVARIATE ANALYSIS

#### 1.Lead Origin



- API and Landing Page Submission has around 30 to 35 % conversion rate and Lead originated from here are considerable.
- Land Add Form has 90% conversion rate but Lead Add form counts are very less
- Lead Import are very less in count

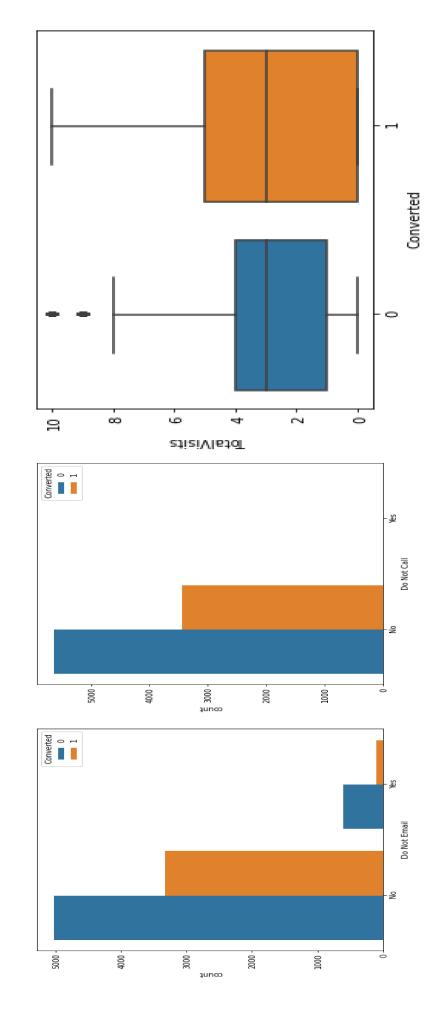
2.Lead Source



2.Conversion rate of Leads with Last 1. Most of the leads have their last activity as "Email opened"

3.Do Not Email and Do Not Call

4. Total Visit

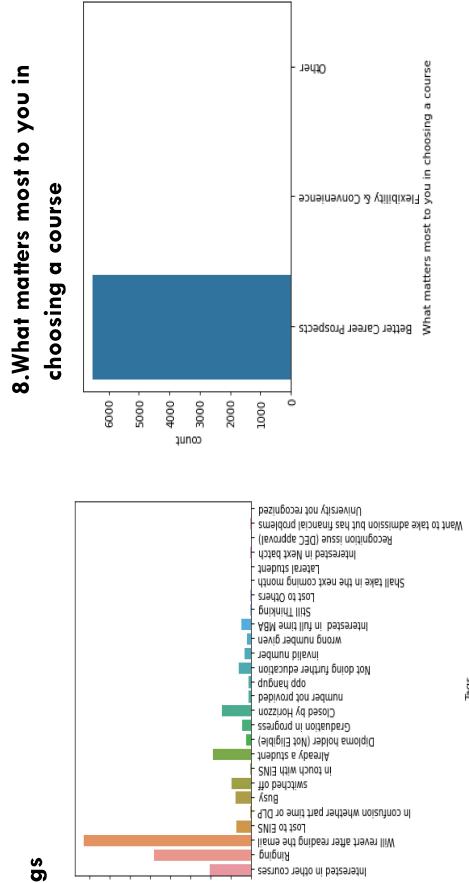


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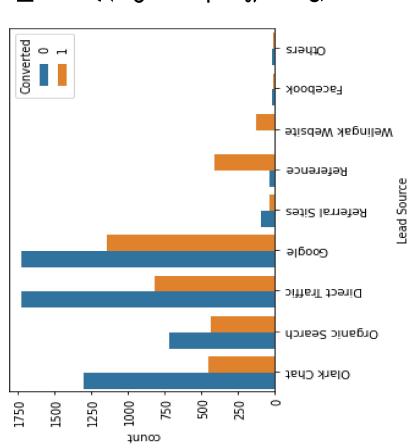
E-Business

Operations Management Retail Management Services Excellence Hospitality Management Rural and Agribusiness Thealthcare Management

University not recognized Want to take admission but has financial problems (levorqqe DEQ) əuzzi noitingocəЯ Interested in Next batch Lateral student Shall take in the next coming month Lost to Others Still Thinking A8M smit llut ni betzeretnl wrong number given nvalid number. Not doing further education dnbuey ddo number not provided Closed by Horizzon - szergorq ni noiteuberð Diploma holder (Not Eligible) Already a student in touch with EINS The behatiwa In confusion whether part time or DLP Lost to EINS Will revert after reading the email pnipniA Interested in other courses 2000 200 250 1750 1000 qunoo



9.Lead Source

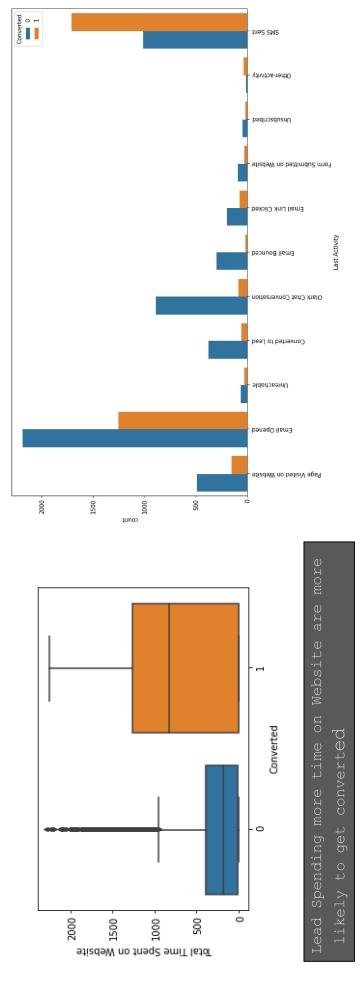


1.Lead Conversion from Google and Direct Traffics are quite good 2.Reference Sites and Welingak Website's conversion rate are very high

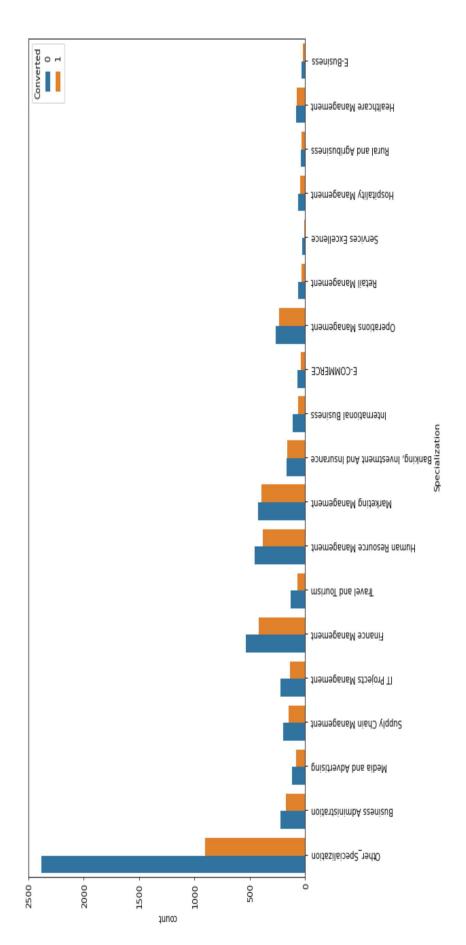
To improve overall conversion rate should focus on Clark Chat, Organic Search, Direct Traffic, Google leads and generate more leads from Reference Sites and Welingak Website

10.Total Time Spent on Website

11.Last Activity



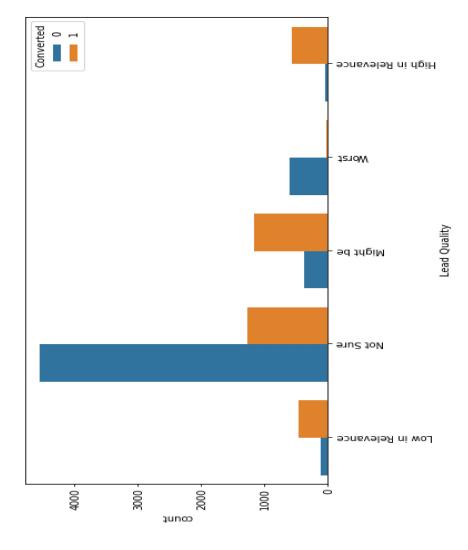
12.Specialization

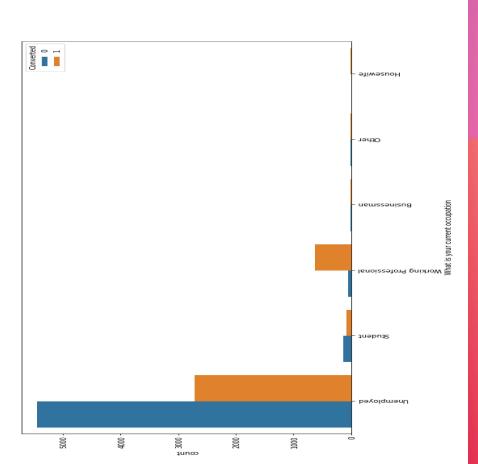


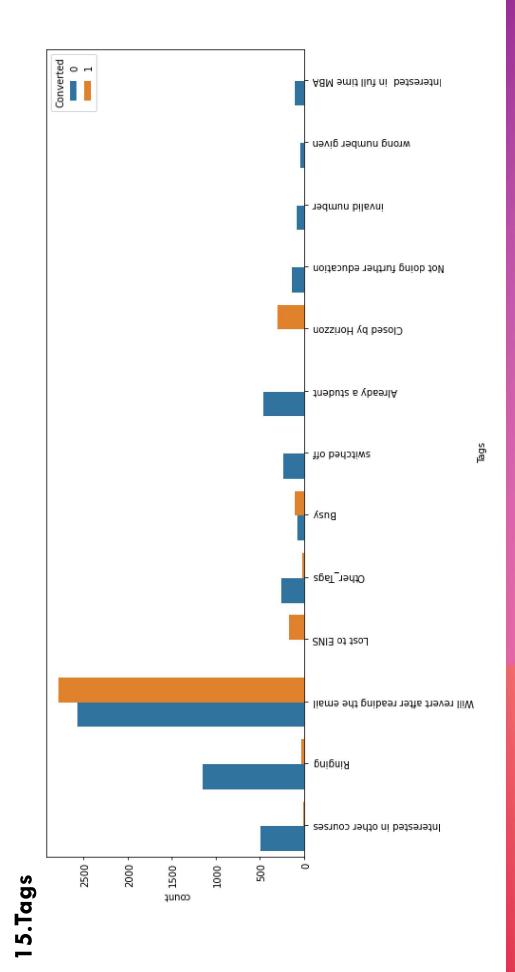
13.What is your current occupation



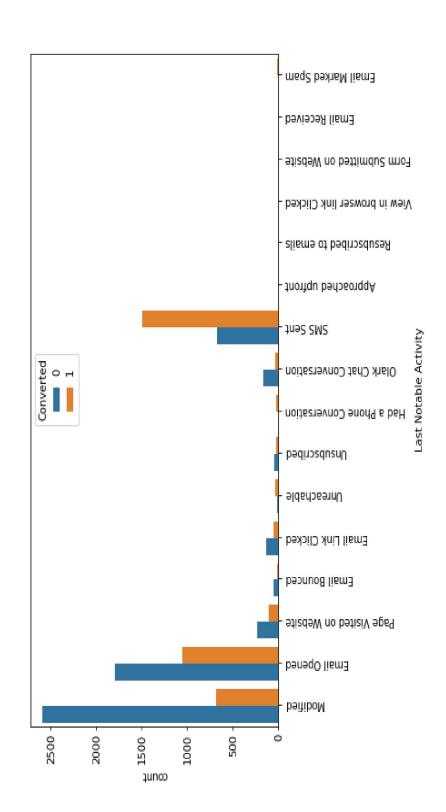
14.Lead Quality







16.Last Notable Activity



#### **Train Data:**

- Accuracy=91.93%
- Sensitiviy=85.15%
- Specificity=96.18%

#### Test Data:

- Accuracy=90.45%
- Sensitivity=84.42%
- Specificity=93.88%

#### Valuable Insights:

- The sales team of X-Education should focus on leads having 1.Lead\_Origin:Lead Add Form 2.Occupation: Working Profession 3.Lead Source: Welingak Websit
- 2.Lead Spending more time on Website are more likely to get converted
- 3.The Sensitivity, Specificity and accuracy obtained in test set are almost accurate.
- 4.High Sensitivity ensures that almost all the leads who are likely to convert are correctly
- High specificity will ensure that leads that are on the brink of probability of getting converted or not are not selected.
- It is better not focus more on customer who do not want to be called about the course.
- ullet 7.If last notable action is modified , he/she may not be a potential lead