

Pramai Das

Data Analyst











EDUCATION

An Education Company

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.

Objective

The company requires us to build a model wherein you need to assign a lead score to each of the leads such that the customers with higher lead score have a higher conversion chance and the customers with lower lead score have a lower conversion chance. The CEO, in particular, has given a ballpark of the target lead conversion rate to be around 70%.

Social Marketing Hot Nurturing

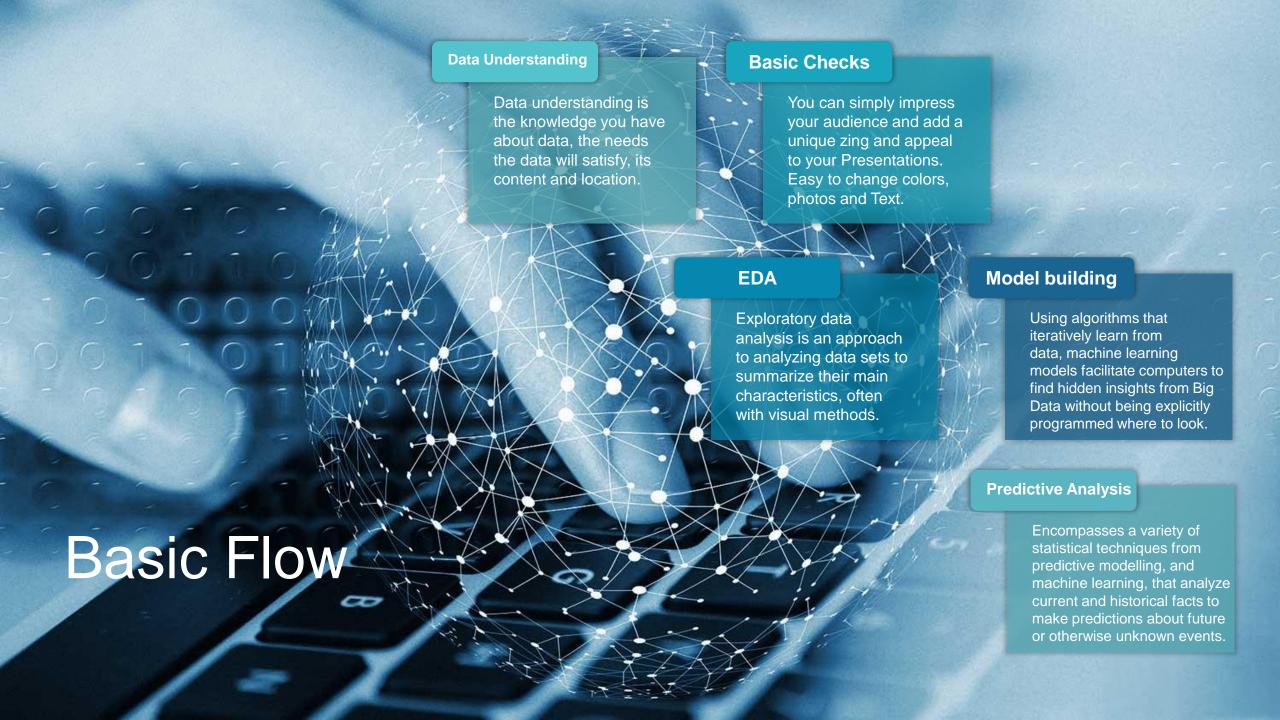
Lead Conversion Process - Demonstrated as a funnel

Basic Architecture

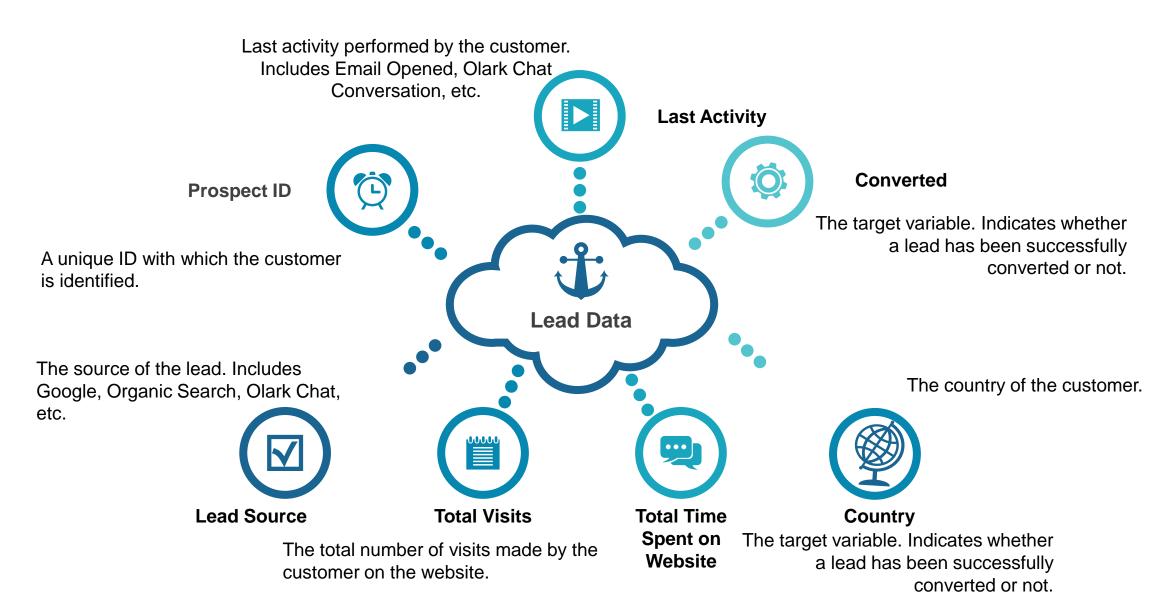


Logistic Regression Model

Building 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.

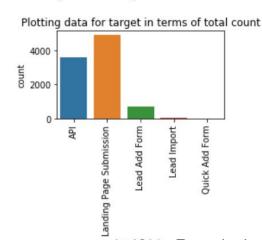


Analyzing the Dataset



Plotting Lead Origin

Visualizing the Data



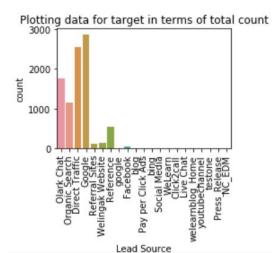
The graph implies that the customer do open their email a lot as the count being highest among all.





Plotting Lead Source

From the lead origin graph we can clear say there is a good variation and Landing page submission has the highest count





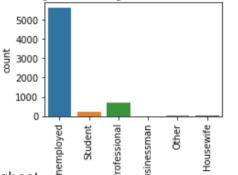
Last Activity Plotting What is your current occupation

Plotting data for target in terms of total count

Plotting data for target in terms of total count

3000

2000 1000

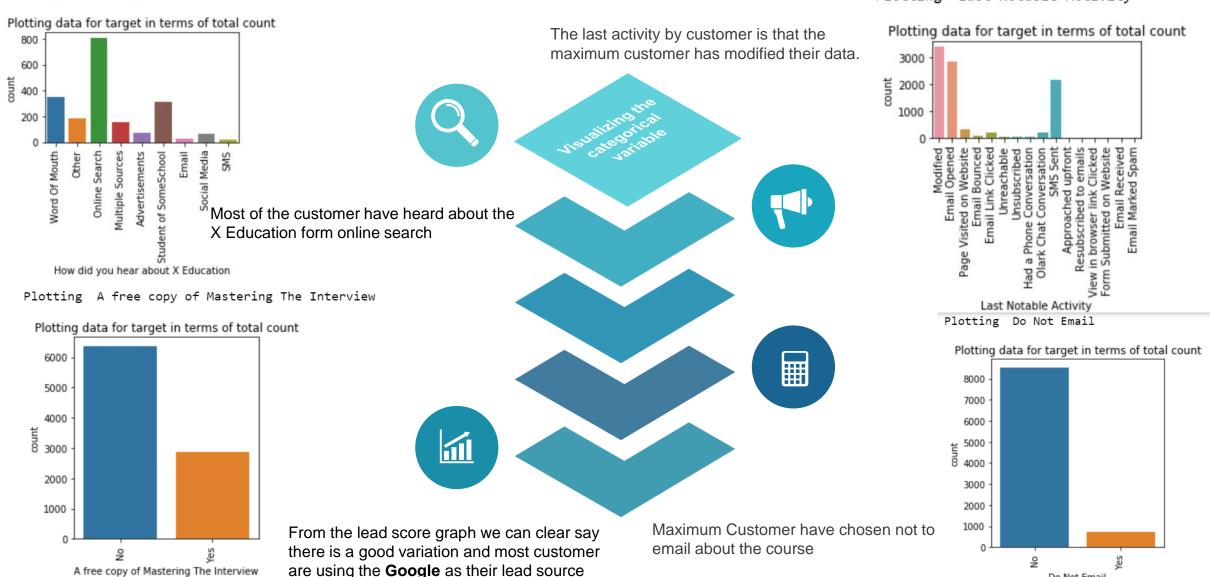


What is your current occupation

From the lead score graph we can clear say there is a good variation and most customer are using the Google as their lead source

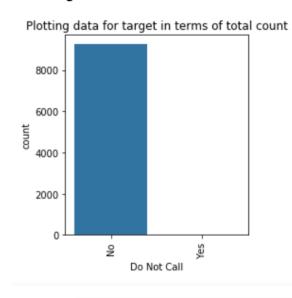
Unemployed Customer have the highest count in occupation category

Plotting How did you hear about X Education Plotting Last Notable Activity



Do Not Email

Plotting Do Not Call



8000

6000

4000

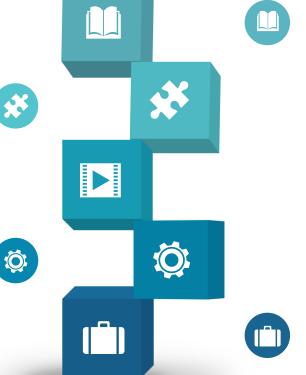
2000

Plotting Update me on Supply Chain Content

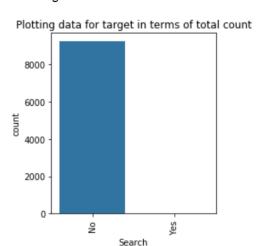
Plotting data for target in terms of total count

Update me on Supply Chain Content

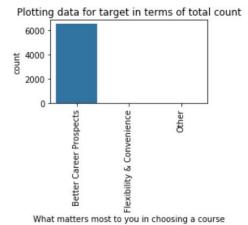
All the below graphs does not have any variation. Thus considering this attribute is not an ideal choice.

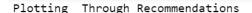


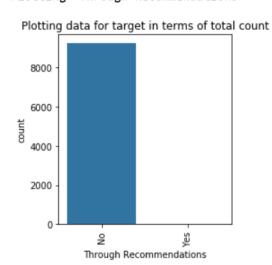
Plotting Search



Plotting What matters most to you in choosing a course



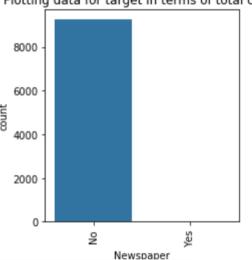




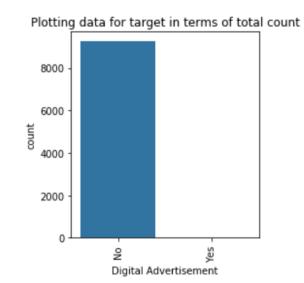
All the below graphs does not have any variation. Thus considering this attribute is not an ideal choice.



Plotting data for target in terms of total count

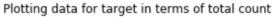


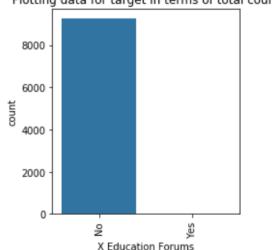
Plotting X Education Forums



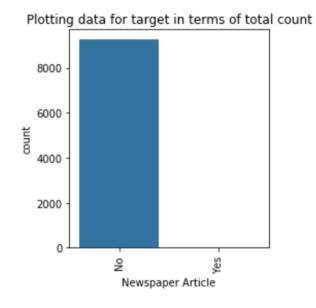
Plotting Digital Advertisement







Plotting Newspaper Article



8000

6000

4000

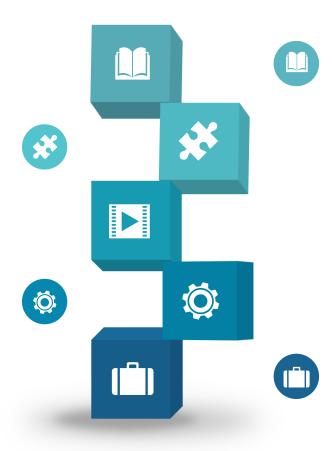
2000

Plotting Get updates on DM Content

Plotting data for target in terms of total count

Get updates on DM Content

All the below graphs does not have any variation. Thus considering this attribute is not an ideal choice.



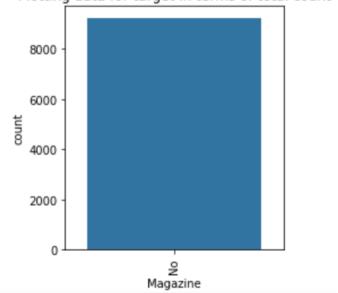
Plotting data for target in terms of total count

8000
6000
4000
2000 -

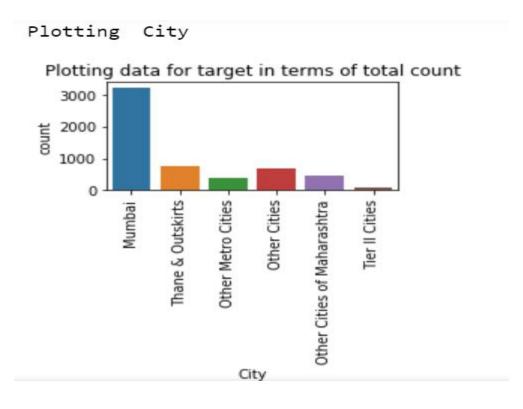
I agree to pay the amount through cheque

Plotting Magazine

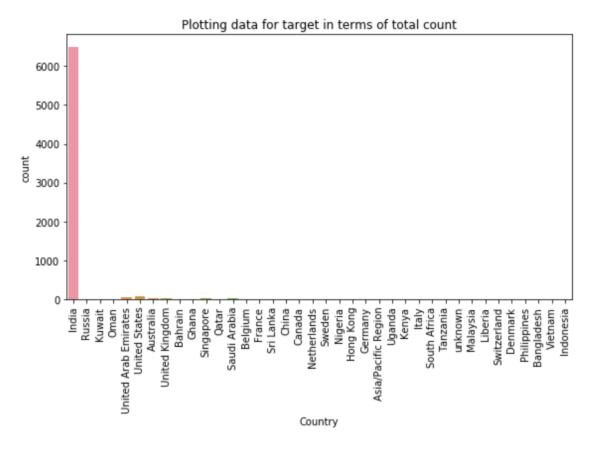
Plotting data for target in terms of total count



Visualizing the County and City







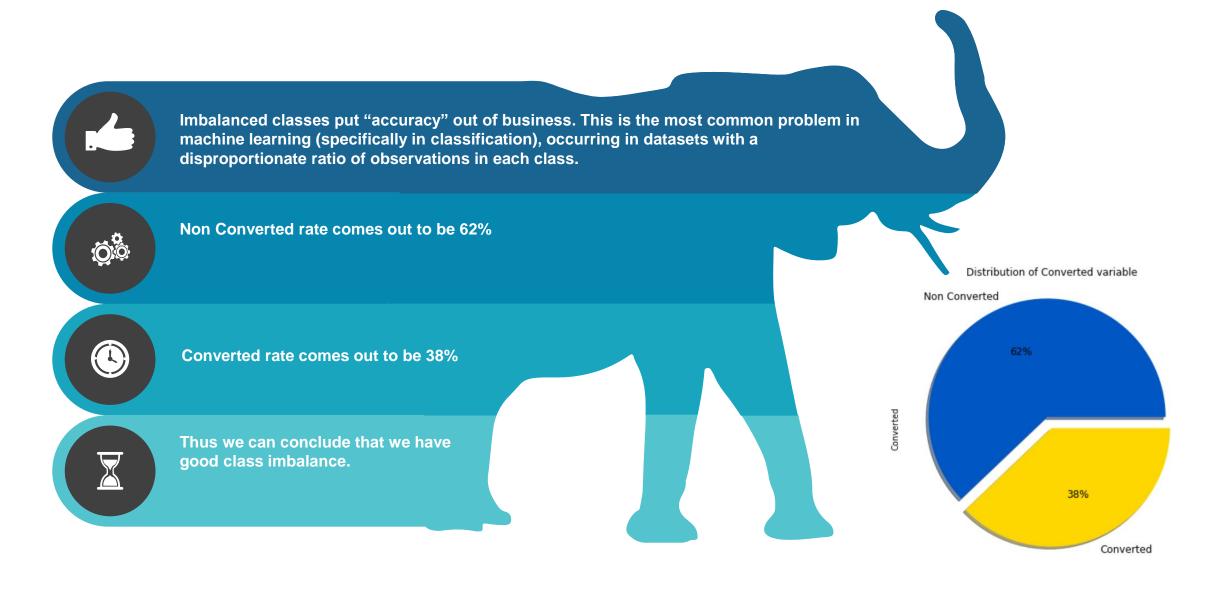
County: Maximum customers are from

India

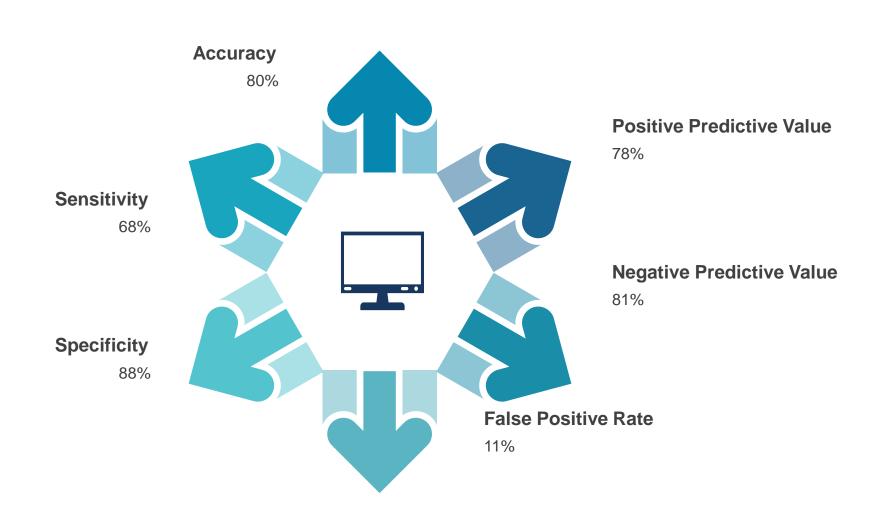
City: Maximum customers are from

Mumbai

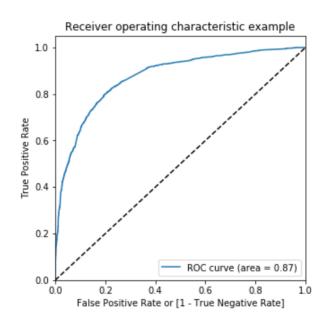
Class Imbalance



Model Result



ROC And Optimal Cut-off





Optimal Cut-off

I hope and I believe that this Template will your Time, Money and Reputation. Get a modern PowerPoint Presentation that is beautifully designed.

ROC

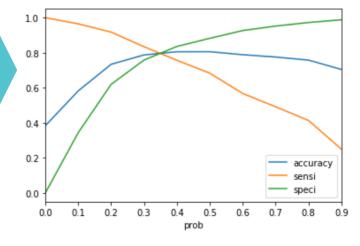
Easy to change colors, photos and Text.

ROC



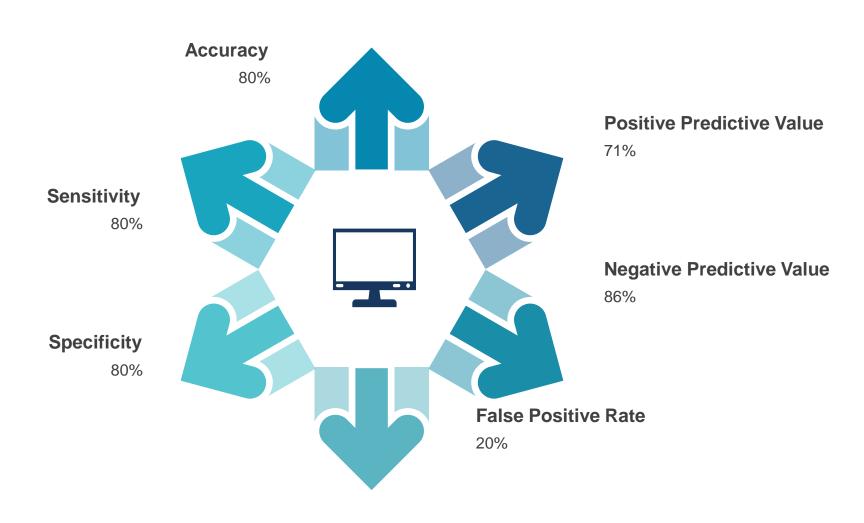
Optimal Cut-off

The optimal cut-off com es out o be 3.4

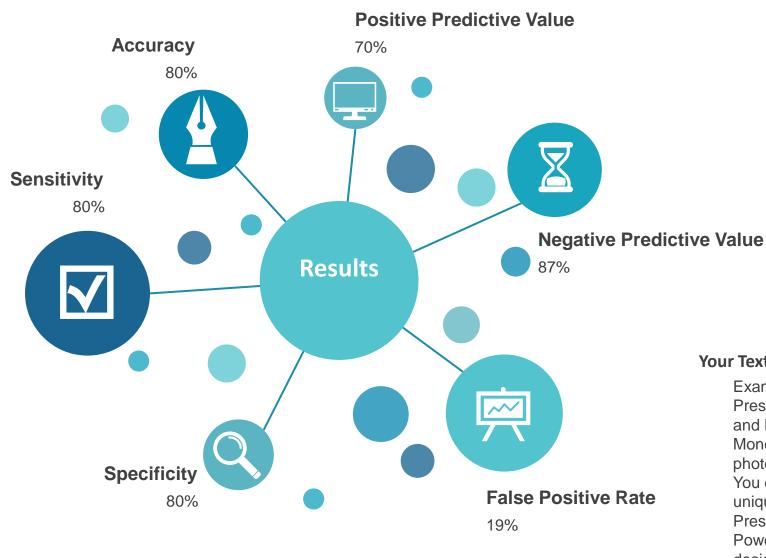


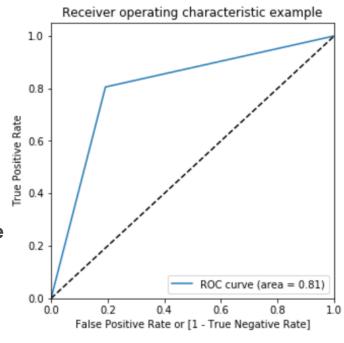
ROC Curves which show the tradeoff between the True Positive Rate (TPR) and the False Positive Rate (FPR). And as was established from the formulas above, TPR and FPR are nothing but sensitivity and (1 - specificity), so it can also be looked at as a tradeoff between sensitivity and specificity.

Model Result based on optimal threshold



Predictive Results





Your Text Here

Example Text: Get a modern PowerPoint Presentation that is beautifully designed. I hope and I believe that this Template will your Time, Money and Reputation. Easy to change colors, photos and Text.

You can simply impress your audience and add a unique zing and appeal to your Reports and Presentations with our Templates. Get a modern PowerPoint Presentation that is beautifully designed.

Top Features

