



# Lead Scoring Case Study

# Problem statement

- ▶ X Education gets a lot of leads, but its lead conversion rate is very poor
- ▶ To make this process more efficient, the company wishes to identify the most potential leads, also known as 'Hot Leads'
- ▶ If they successfully identify this set of leads, the lead conversion rate should go up .
- ▶ We are required to build a model wherein we need to assign a lead score to each of the leads such that the customers with higher lead score have a higher conversion chance
- ▶ The CEO, in particular, has given a ballpark of the target lead conversion rate to be 80%.

# Solution

## **Leads Clustering**

- ▶ We cluster the leads into certain categories based on their tendency or probability to convert, thus, getting a smaller section of hot leads to focus more on.

## **Focus Communication**

- ▶ Since we would have a smaller set of leads to have communication with, we might make more impact with effective communication .

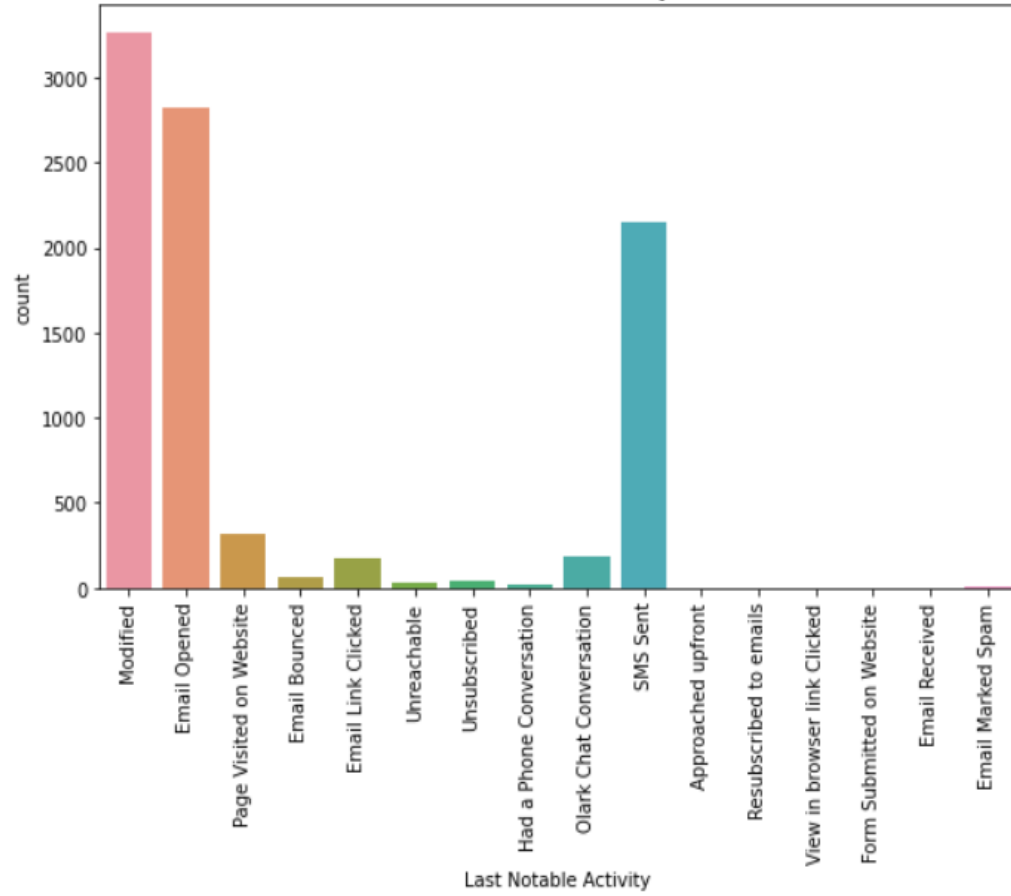
## **Increase conversion**

- ▶ Since we focused on hot leads, which were more probable to convert, we would have a better conversion rate, and hence we can achieve the 80% target.

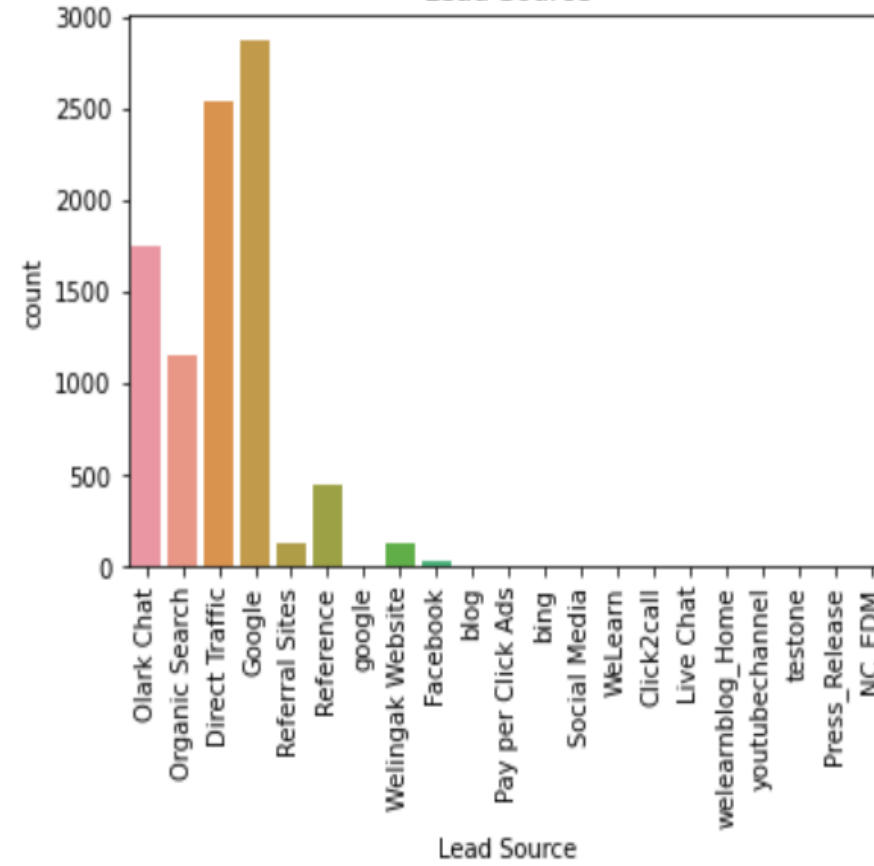


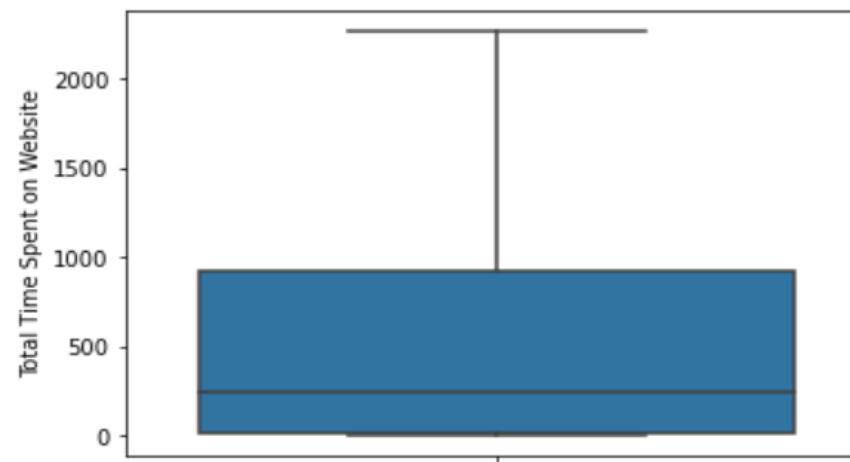
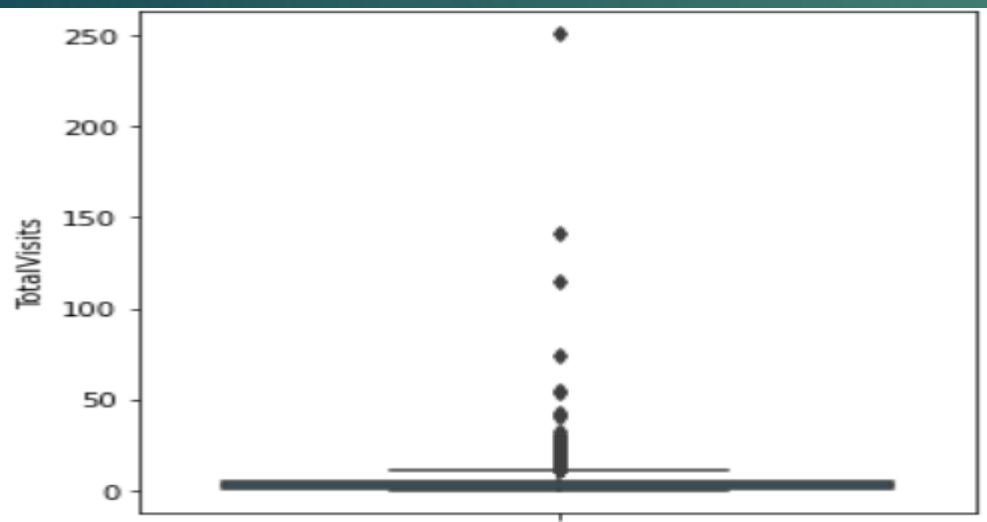
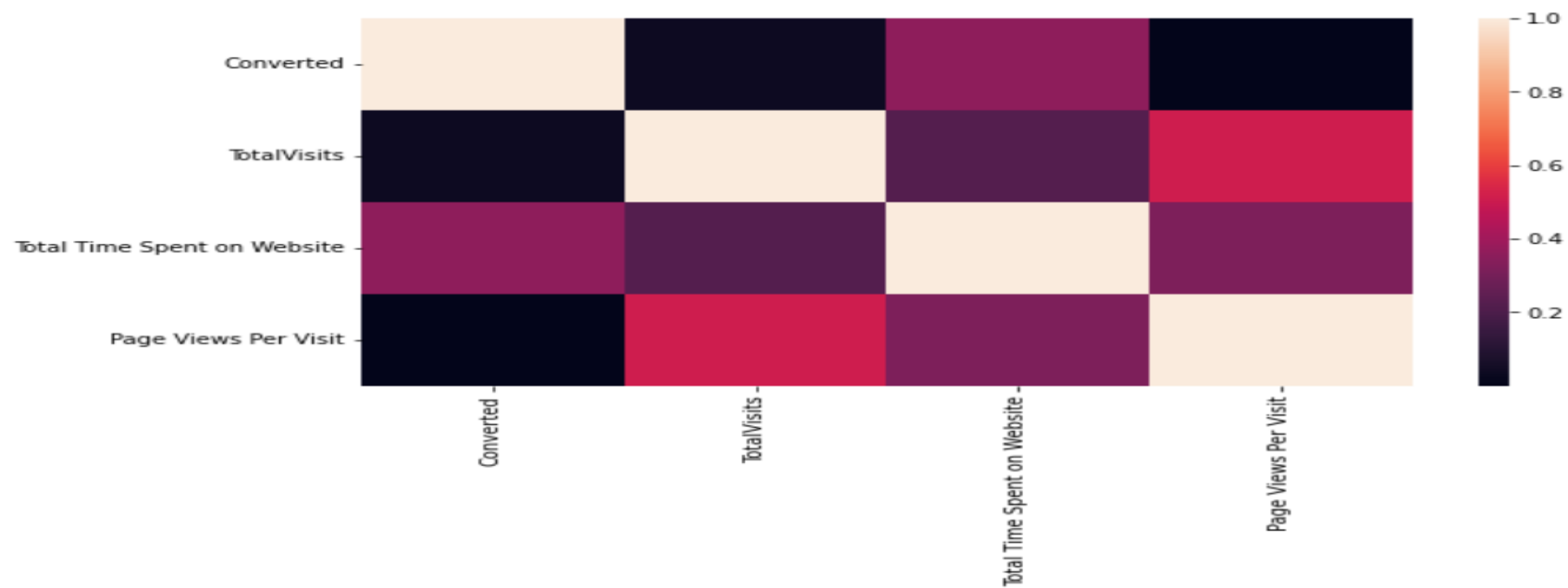
# Visualisations

Last Notable Activity

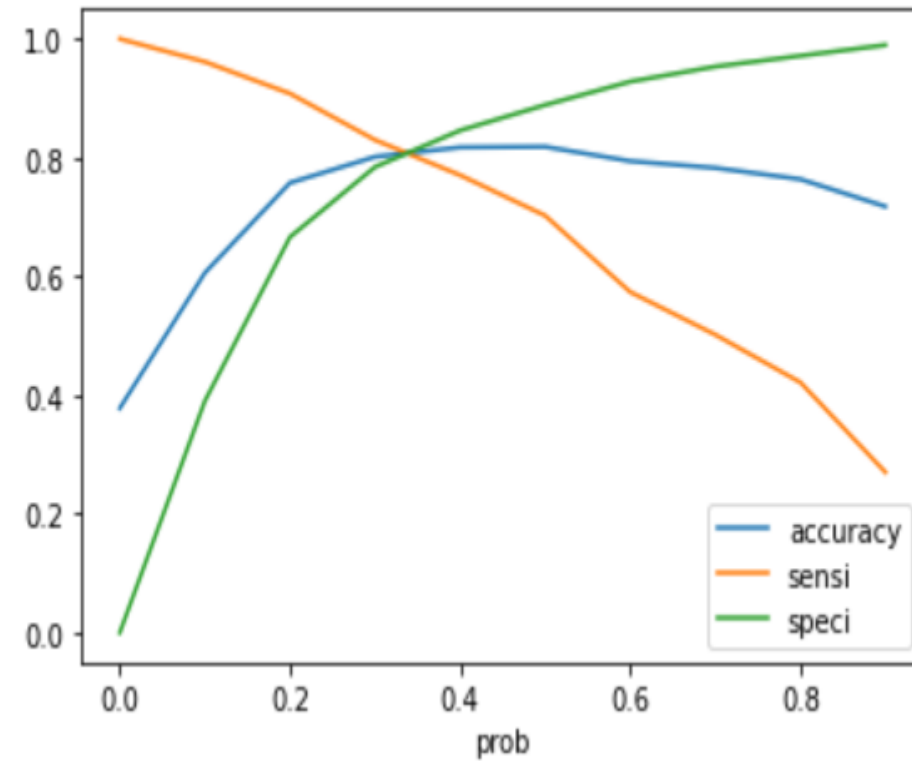
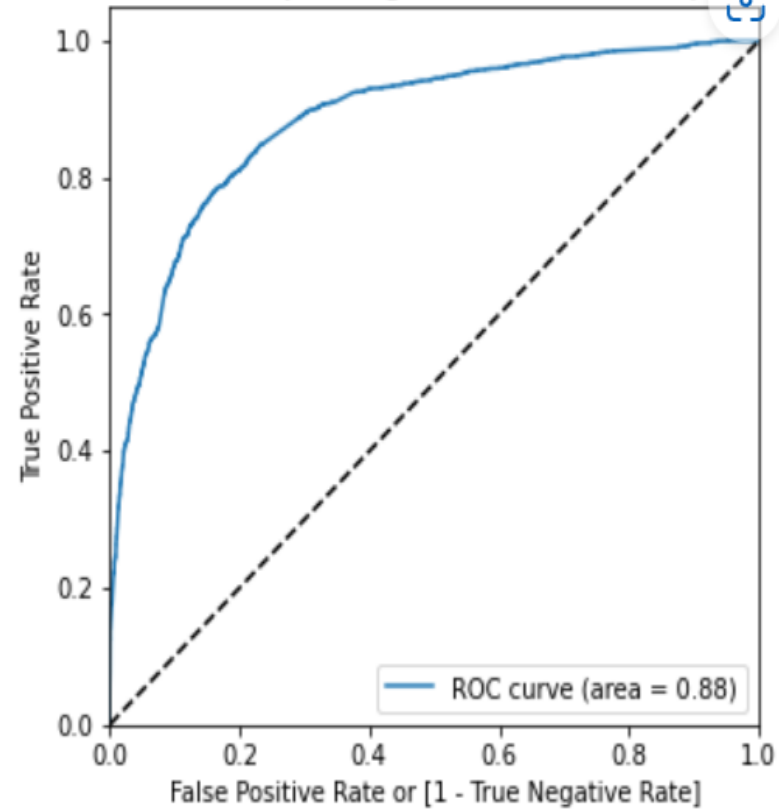


Lead Source





Receiver operating characteristic example



# Analysis

- ▶ Overall accuracy on Test set: 0.786
- ▶ Sensitivity of our logistic regression model: 0.733
- ▶ Specificity of our logistic regression model: 0.823



# Inferences

Top 3 variables in model, that contribute towards lead conversion are:

- ↴ Total Time Spent on Website
- ↴ Last Notable Activity\_SMS Sent
- ↴ TotalVisits

Top 3 variables in my model, that should be focused are:

- ↴ Last Activity\_SMS Sent (positively impacting)
- ↴ Last Activity\_Olark Chat Conversation (negatively impacting)
- ↴ Lead Source\_Olark Chat (negatively impacting)

# Conclusion

X Education Company needs to focus on following key aspects to improve the overall conversion rate:

- ↴ Increase user engagement on their website since this helps in higher conversion .
- ↴ Increase on sending SMS notifications since this helps in higher conversion .
- ↴ Get Total visits increased by advertising etc. since this helps in higher conversion .
- ↴ Improve the Olark Chat service since this is affecting the conversion negatively .

Thank you