LEAD SCORING CASE STUDY

PROBLEM STATEMENT

- ▶ X Education sells online courses to industry professionals.
- ► 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 about 30 of them are converted.
- ▶ 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 as the sales team will now be focusing more on communicating with the potential leads rather than making calls to everyone.

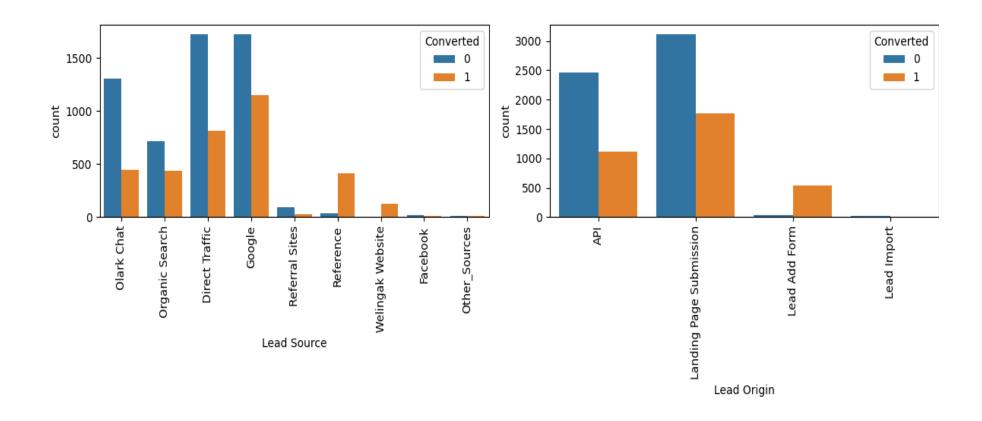
Business Objective:

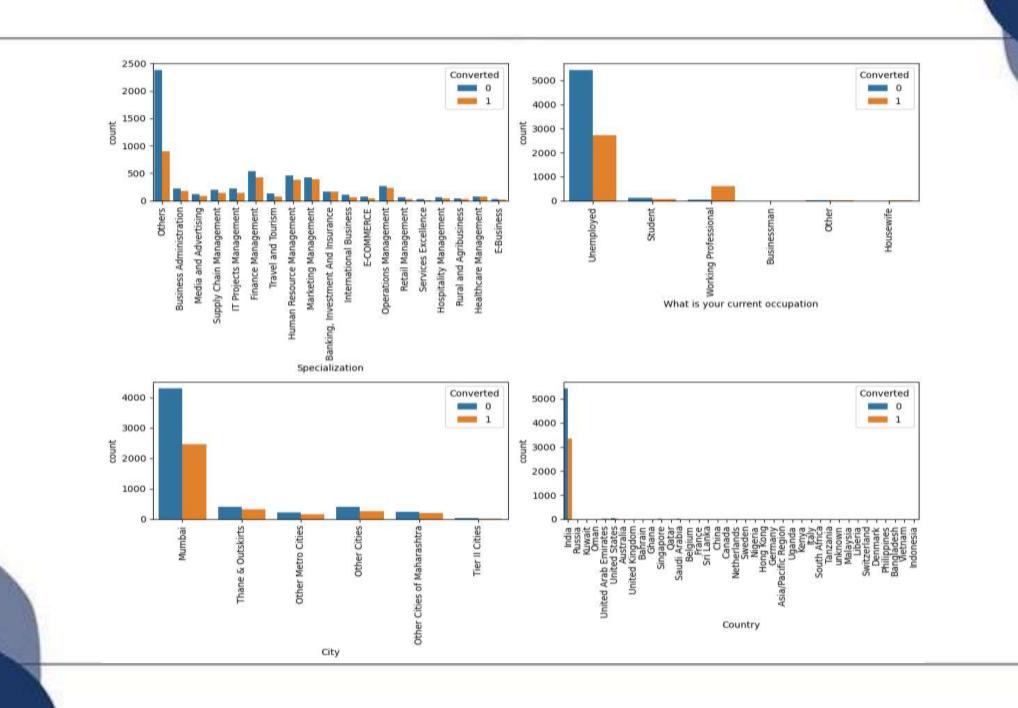
- X education wants to know most promising leads.
 - For that they want to build a Model which identifies the hot leads.
- Deployment of the model for the future use.

Problem Approach

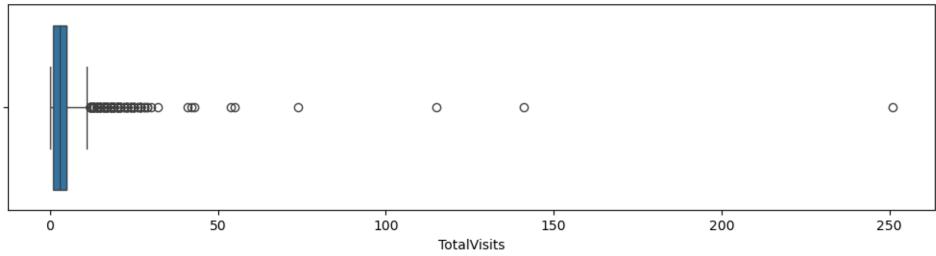
- 1. Data Importing.
- 2. Column analysis & Data Inspection.
- 3. Data Preparation.
- 4. EDA
- 5. Dummy Variables.
- 6. Correlations.
- 7. Model Building.
- 8. Feature Selection RFE.
- 9. ROC Curve
- 10. Final Model.
- 11. Subjective Question

EDA

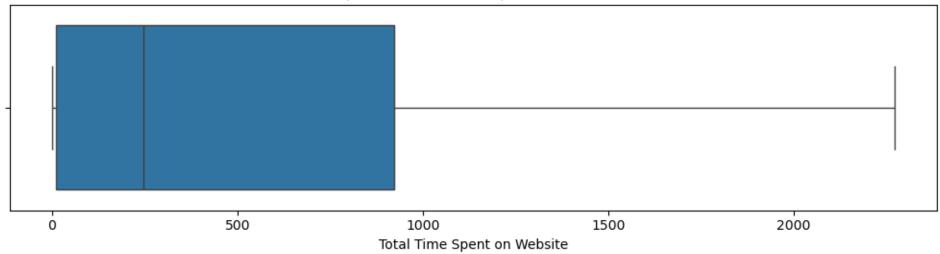


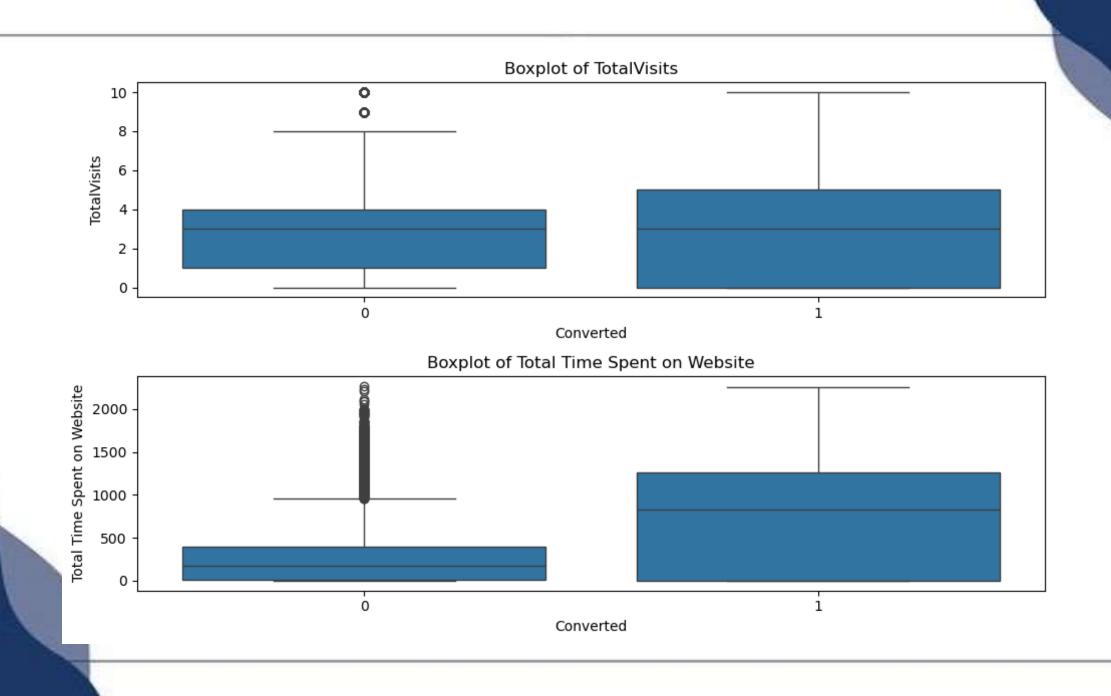


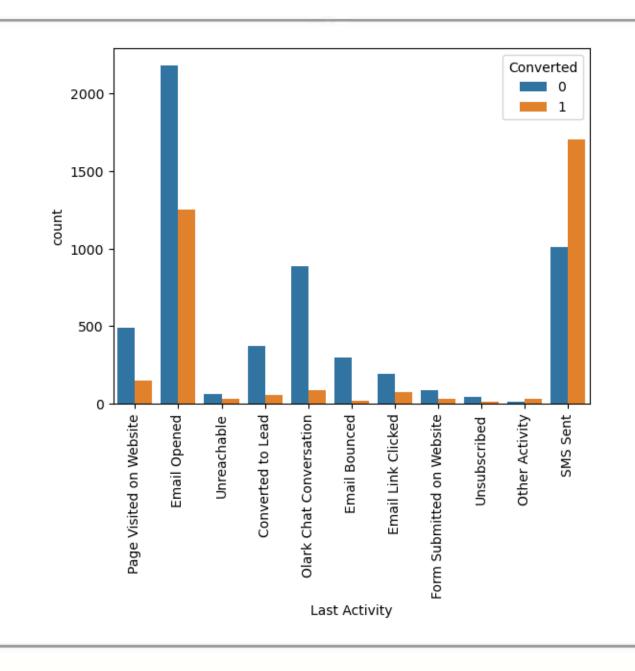


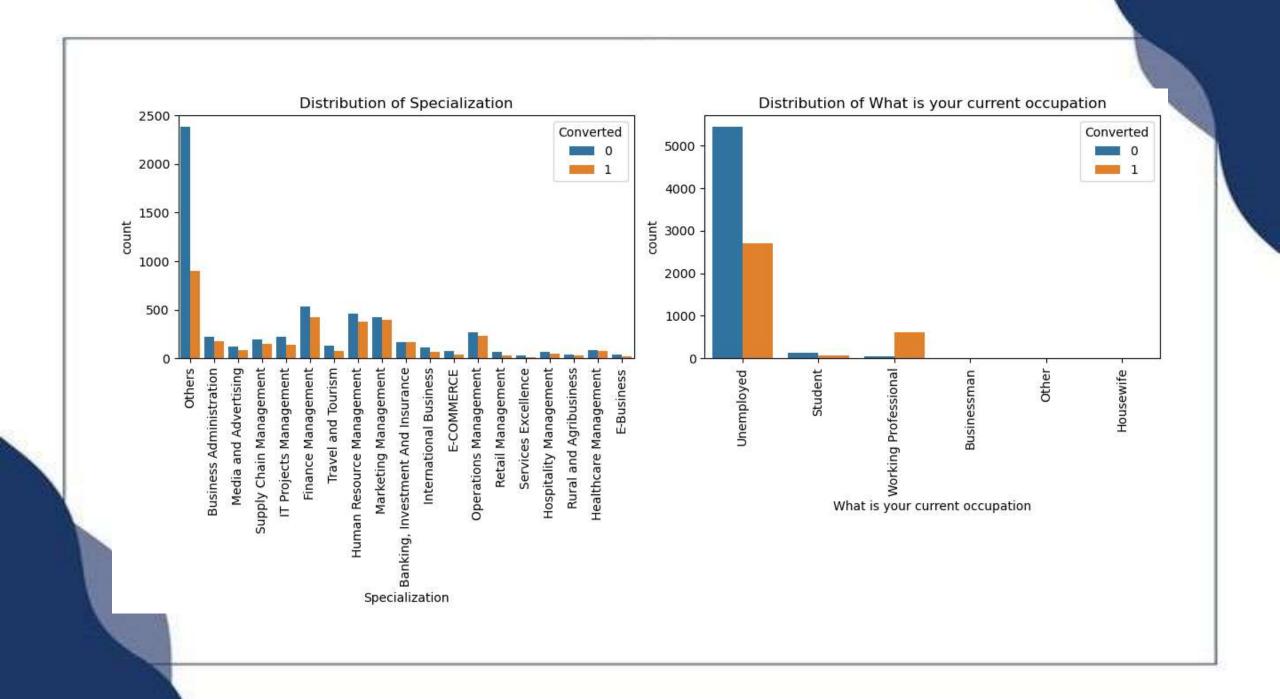


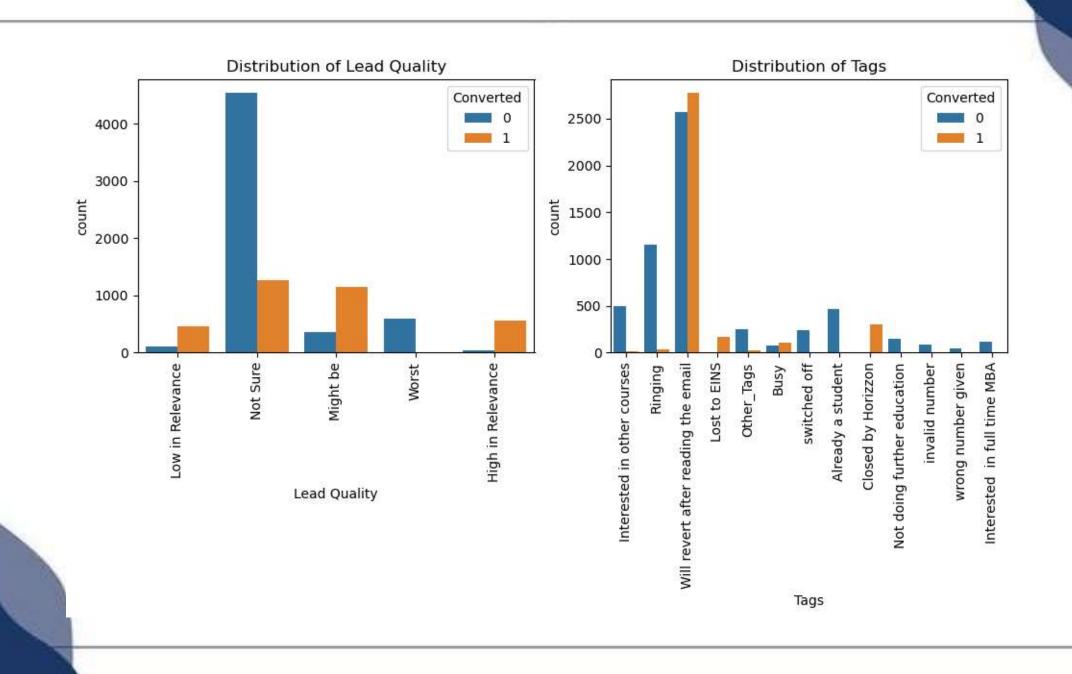
Boxplot of Total Time Spent on Website







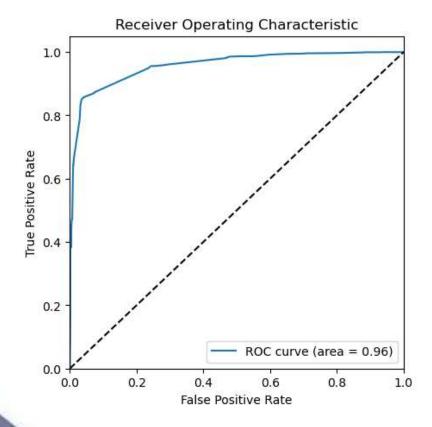


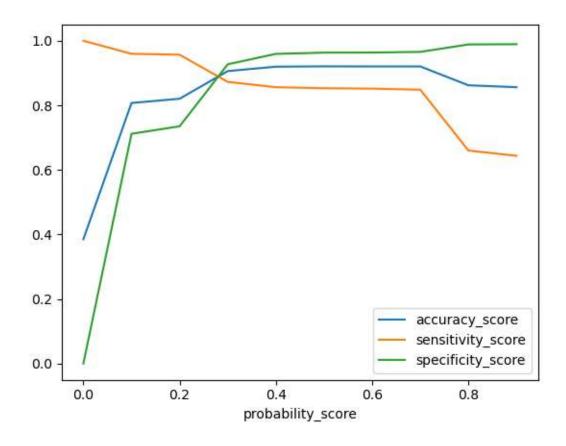


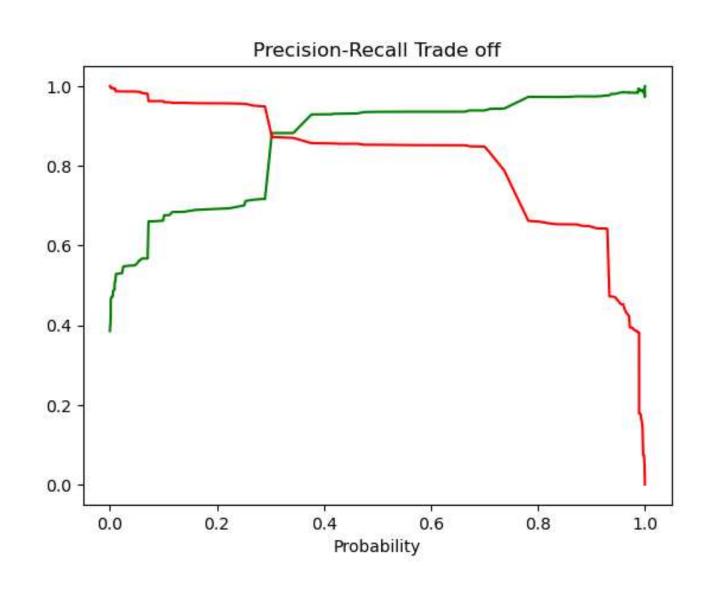
Model Building

- Splitting the Data into Training and Testing Sets
- ► The first basic step for regression is performing a train-test split, we have chosen 70:30 ratio.
- Use RFE for Feature Selection
- Running RFE with 15 variables as output
- ▶ Building Model by removing the variable whose p-value is greater than 0.05 and vifvalue is greater than 5
- Predictions on test data set
- Overall accuracy 81%

ROC Curve







Conclusion

It was found that the variables that mattered the most in the potential buyers are (In descending order):

- The total time spend on the Website.
- Total number of visits.
- When the lead source was:
 - a. Google
 - b. Direct traffic
 - c. Organic search
 - d. Welingak website
- When the last activity was:
 - a. SMS

courses.

- b. Olark chat conversation
- When the lead origin is Lead add format.
- When their current occupation is as a working professional.

 Keeping these in mind the X Education can flourish as they have a very high chance to get almost all the potential buyers to change their mind and buy their