



LEAD SCORE CASE STUDY

STUDY GROUP
ABHINAV SINGH
RITIKA ARYA





BUSINESS OBJECTIVE

AN EDUCATION COMPANY NAMED X EDUCATION SELLS ONLINE COURSES TO INDUSTRY PROFESSIONALS.

THE COMPANY MARKETS ITS COURSES ON SEVERAL WEBSITES AND SEARCH ENGINES LIKE GOOGLE. THE COMPANY GETS LEADS THROUGH PAST REFERRALS, ONLINE SOURCES AND MARKETING TEAM. IT IS FOUND THAT CONVERSION RATE AT X EDUCATION IS AROUND 30%.

THE COMPANY REQUIRES YOU TO BUILD A MODEL WHERE LEAD CONVERSION RATE COULD BE INCREASED TO AROUND 80%.



STEPS TAKEN

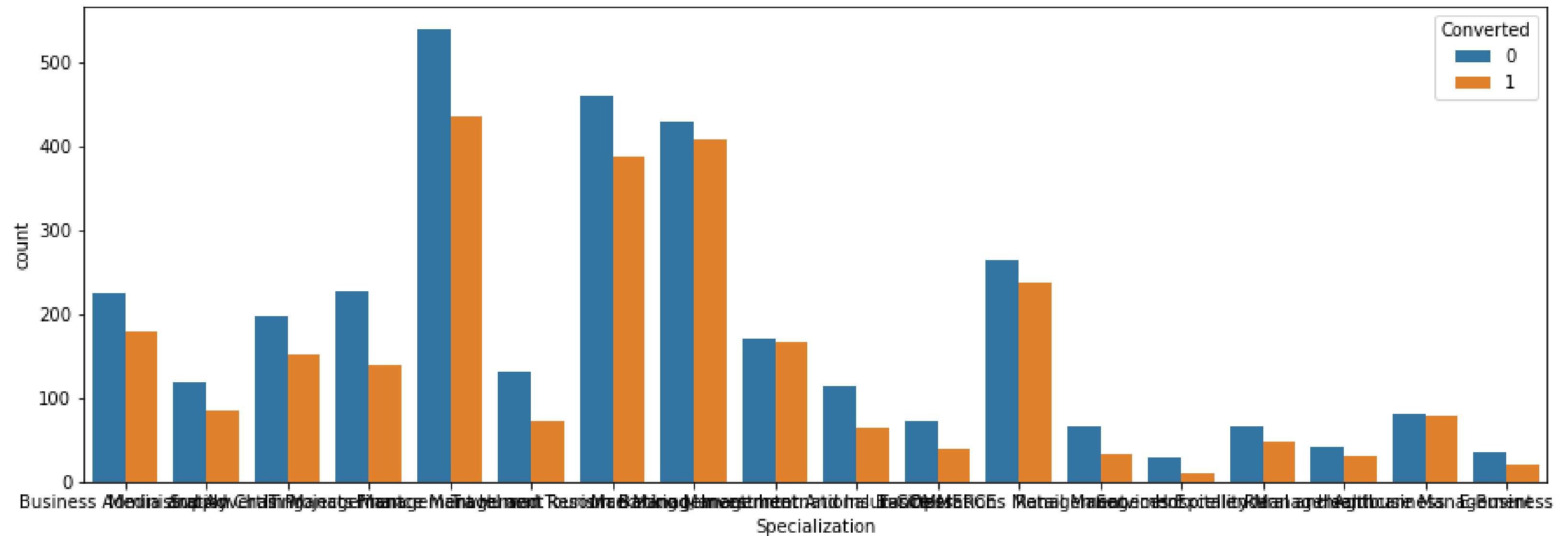
1. Data Understanding
2. Clean the data
3. Univariate Analysis
4. Bivariate Analysis
5. Prepare the data for Model Building
6. Model Building
7. Model Evaluation



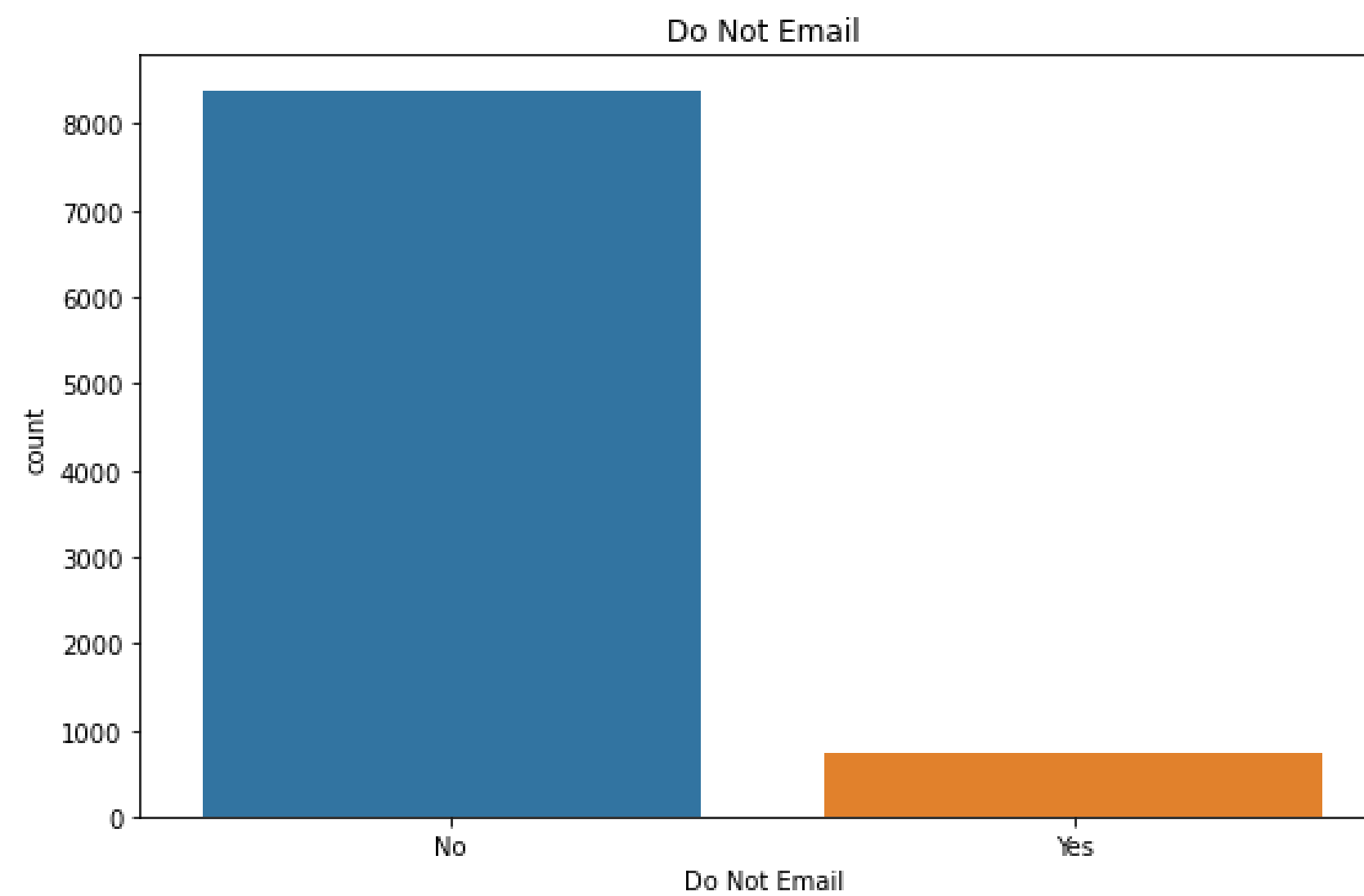
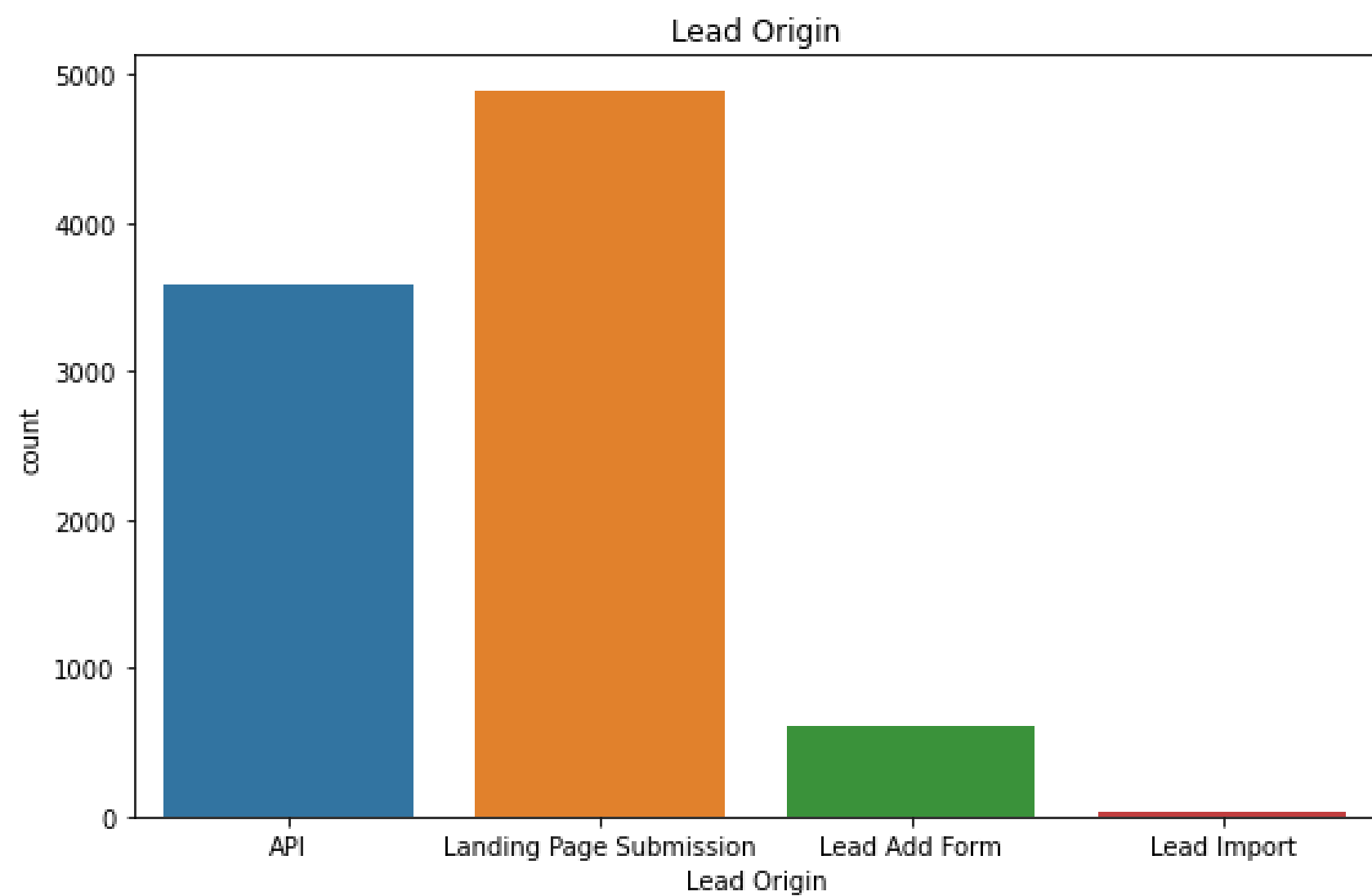
DATA MANIPULATION

1. Total number of rows-9240 and columns-37
2. Removed the "prospect and lead number because it will not impact the model
3. Check for the null values and replacing the null values
4. Dropping the Columns having more than or equal to 45% of missing values
5. EDA

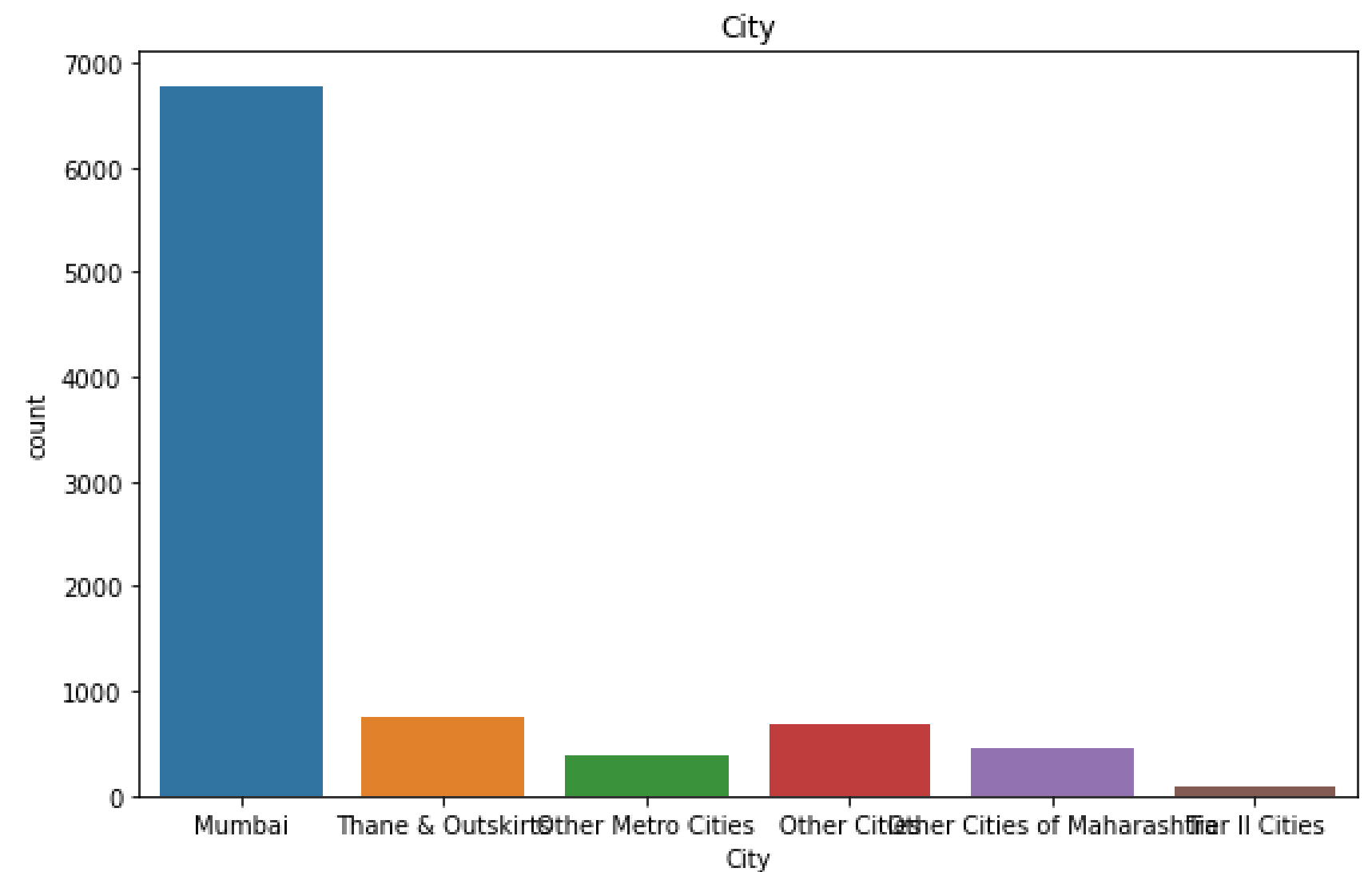
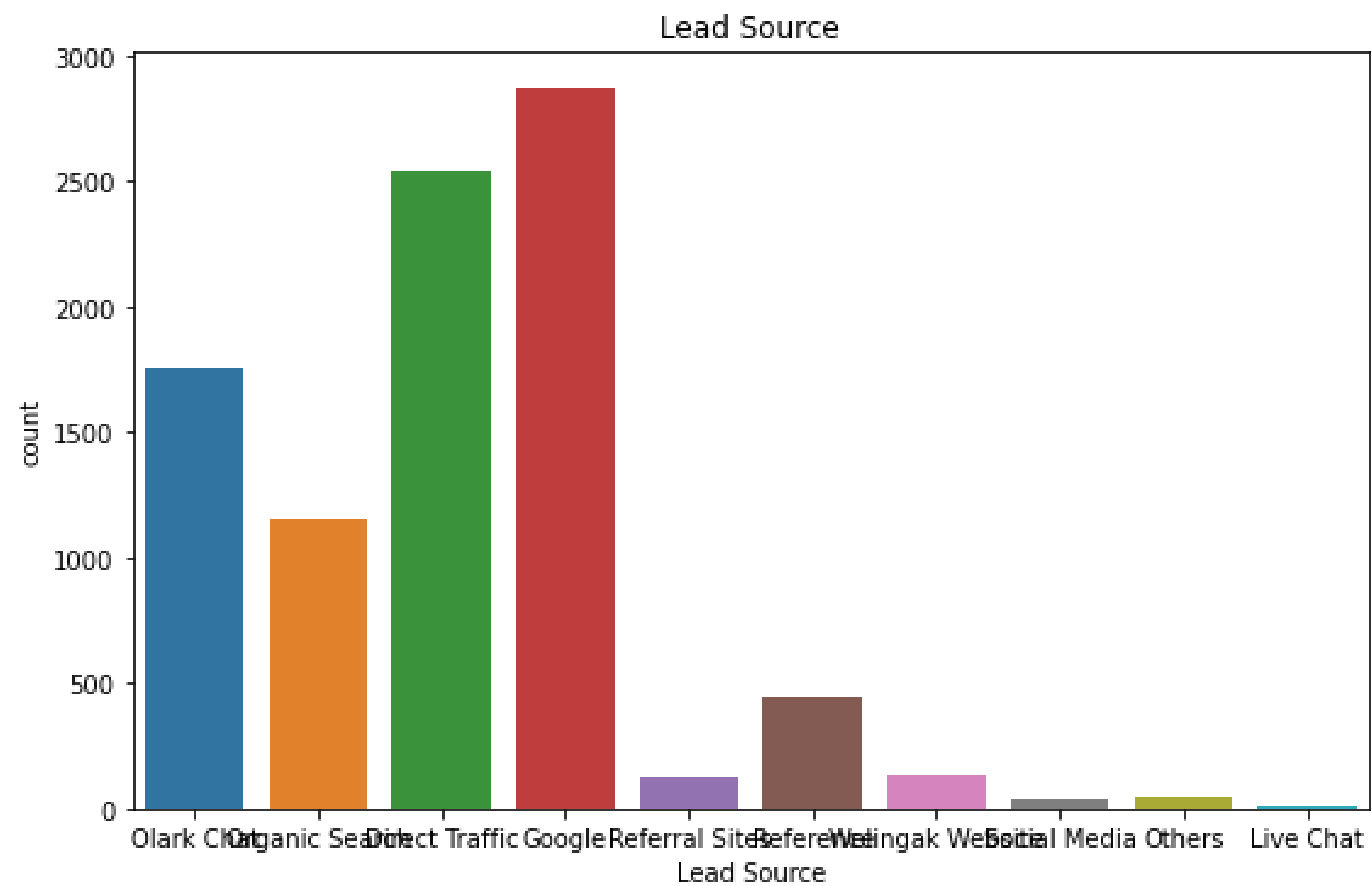
PLOT SPREAD OF SPECIALIZATION COLUMN



EDA

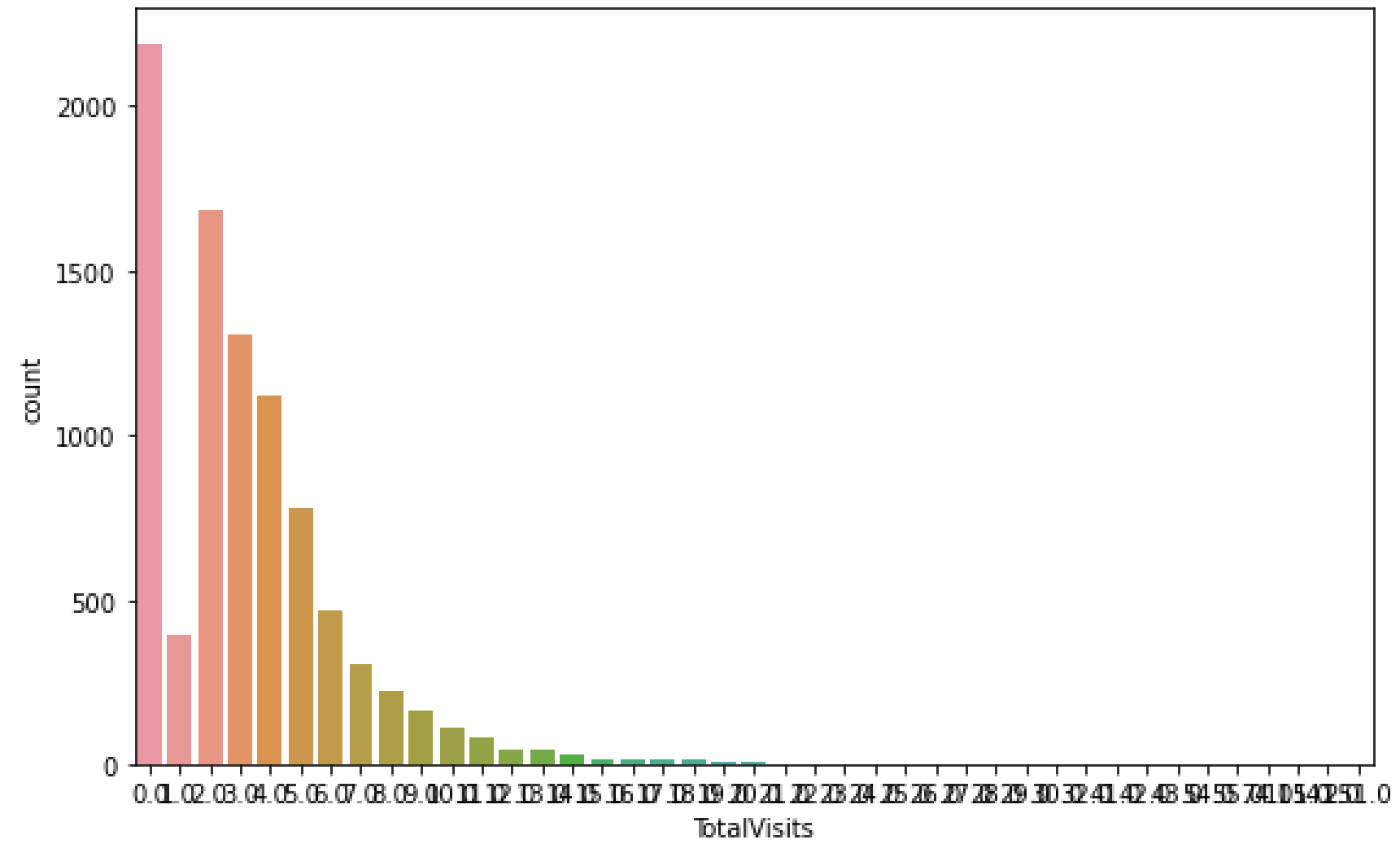


EDA

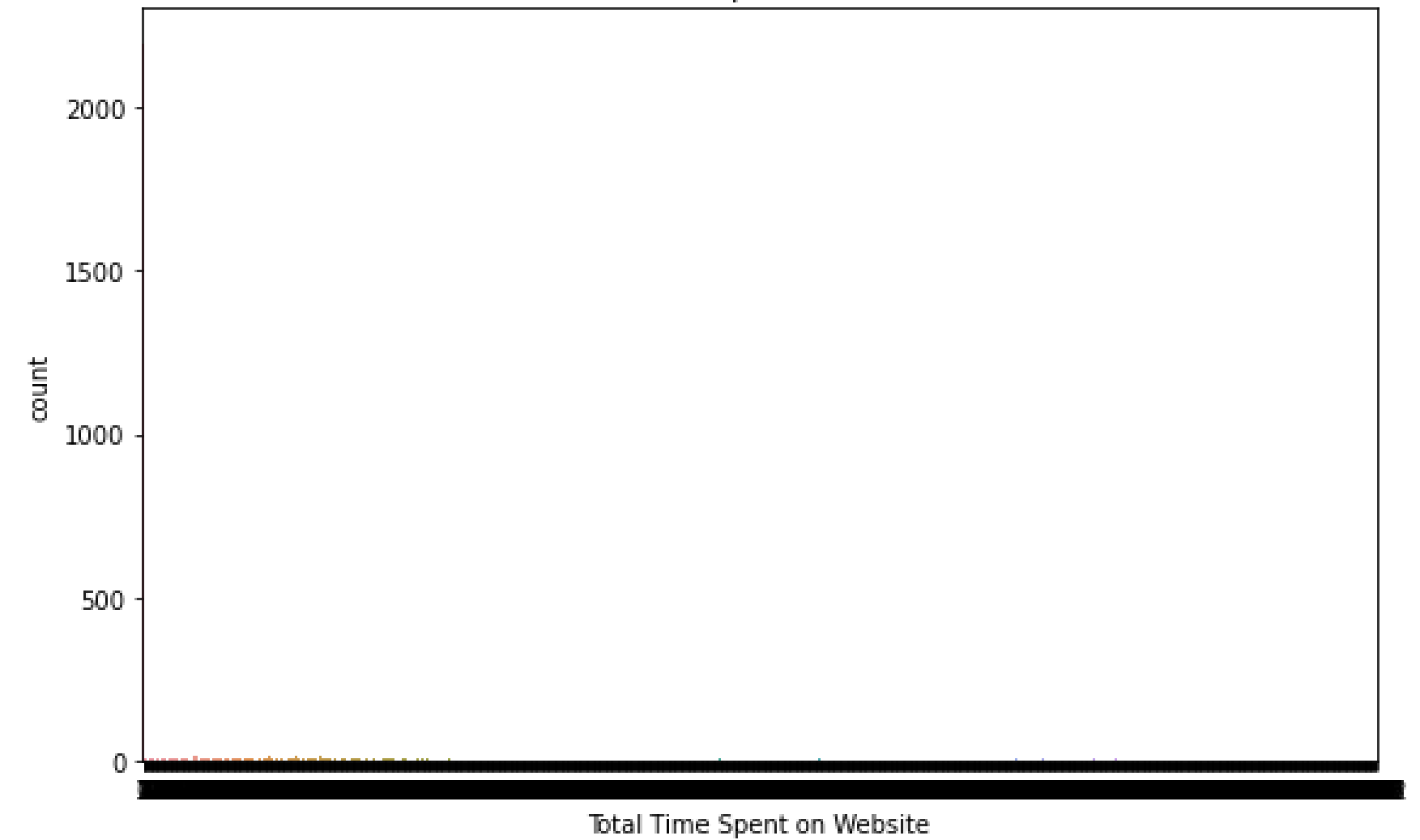


EDA

TotalVisits

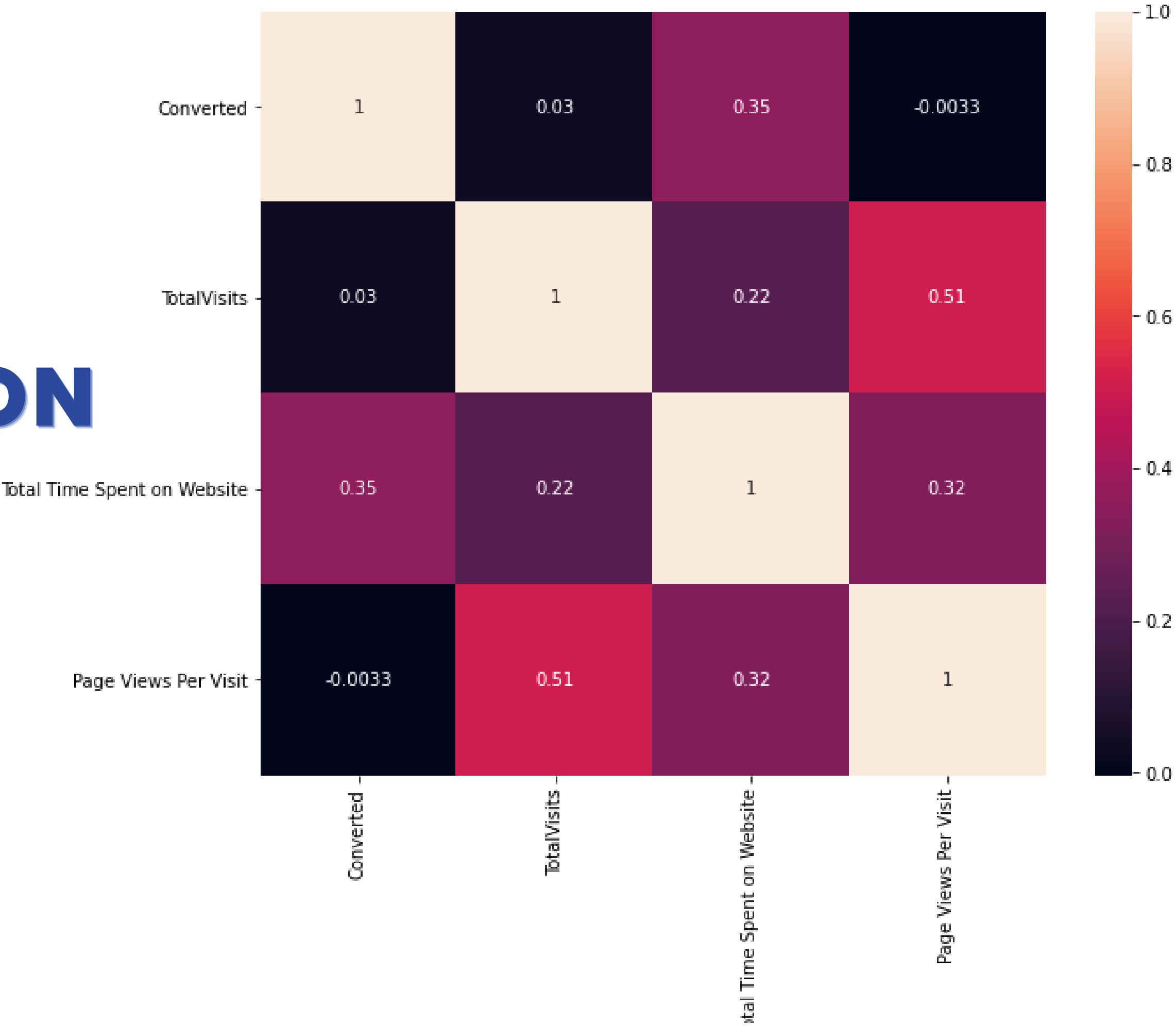


Total Time Spent on Website





CORRELATION



CREATION OF DUMMY VARIABLES

1. Total number of rows-9240 and columns-51
2. After Creating the dummy variables drop the original columns
3. following are the dummy variables
 - Lead Origin', 'What is your current occupation
 - Specialization
 - Lead Source
 - Last Activity
 - Tags

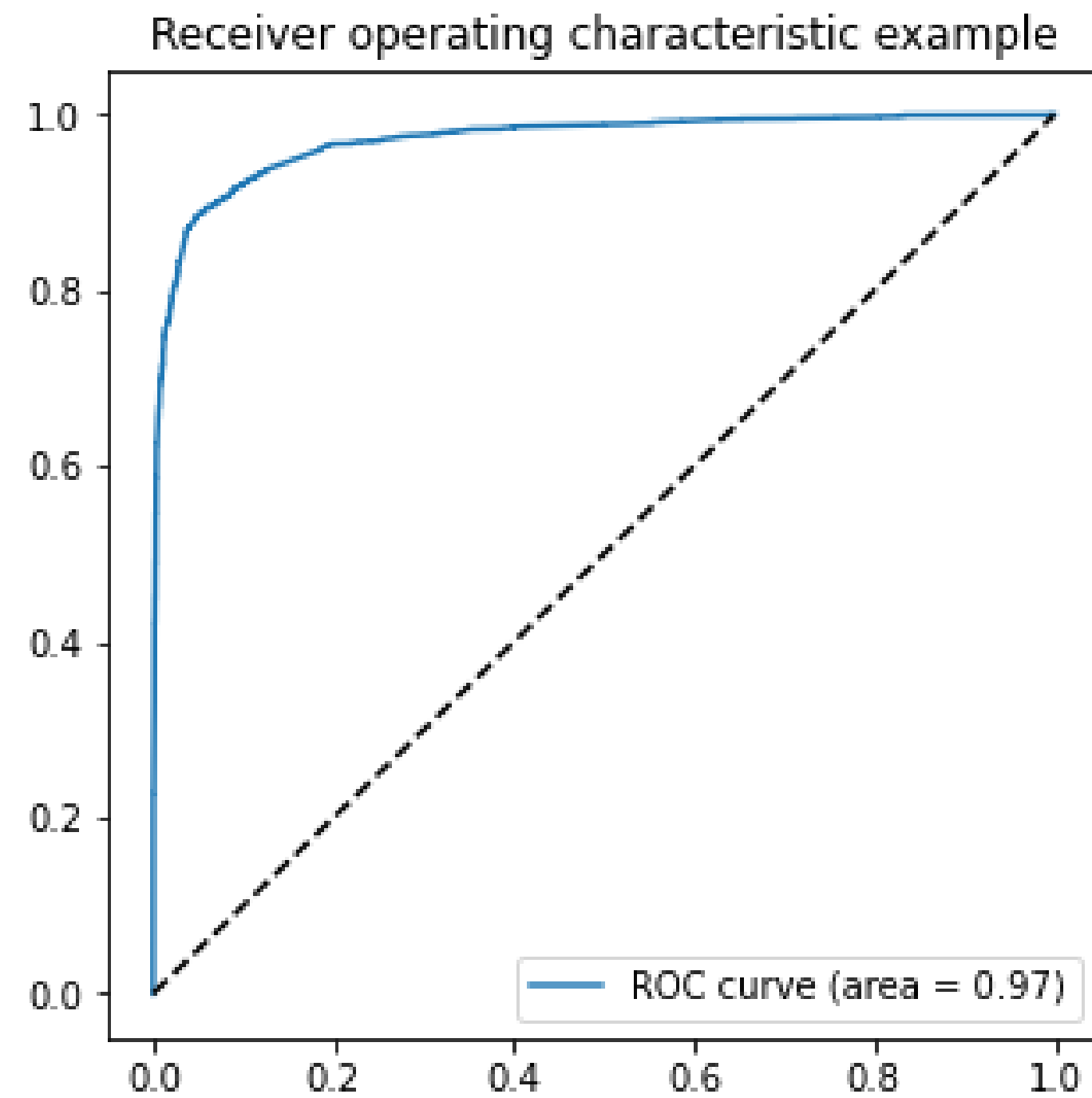


MODEL BUILDING

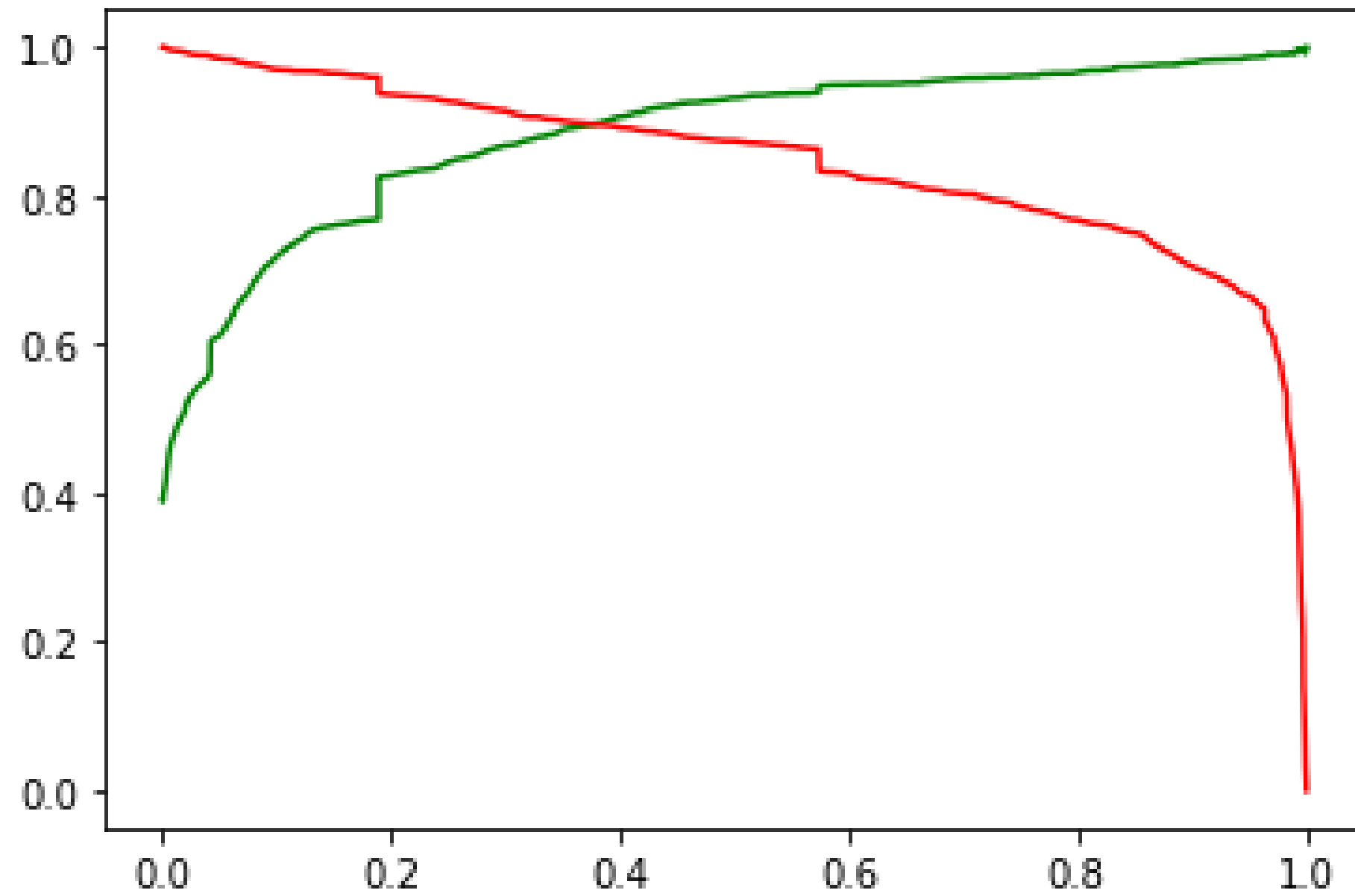


- 1.Import the required library
- 2.Split the dataset into 70% and 30% for train and test respectively
- 3.scaling
- 4.Use rfe for feature Selection
- 5.Put all the columns selected by RFE in the variable 'col'
- 6.Building Model According to the p-value
- 7.Accuracy 92.3%

ROC CURVE



ROC CURVE



CONCLUSION

Factors that are impact full

- **The total time spend on the Website.**
- **Total number of visits.**
- **Lead Sources with element Google**

Maximum number of leads are generated by Google and Direct traffic.

Conversion Rate of reference leads and leads through welingak website is high.

SOLUTIONS

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.