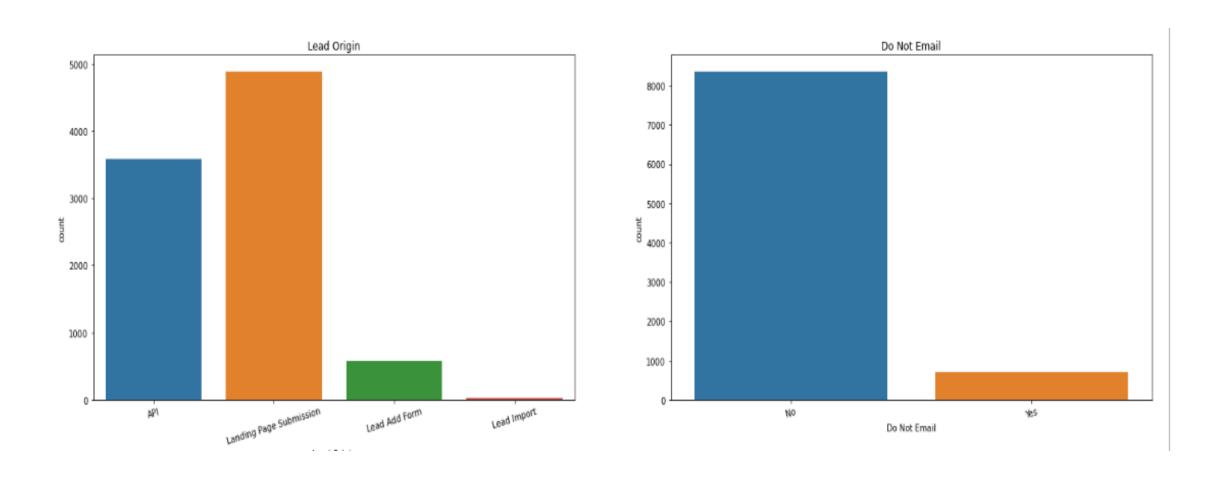
LEAD SCORING CASE STUDY

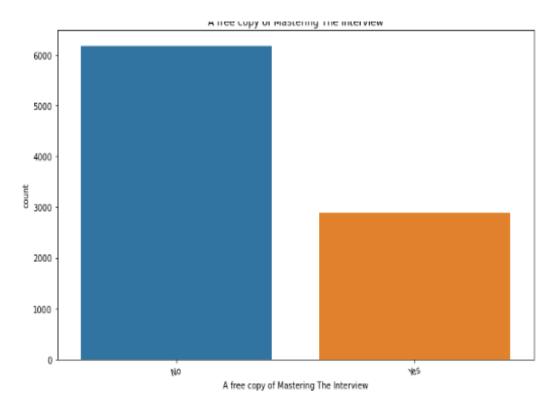
Methodology

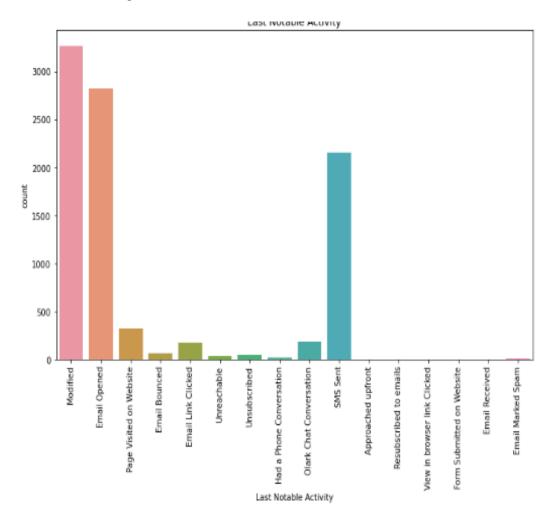
- Data Cleaning and Preparation
- Model Building
- Model Evaluation
- Predictions on the Test Set

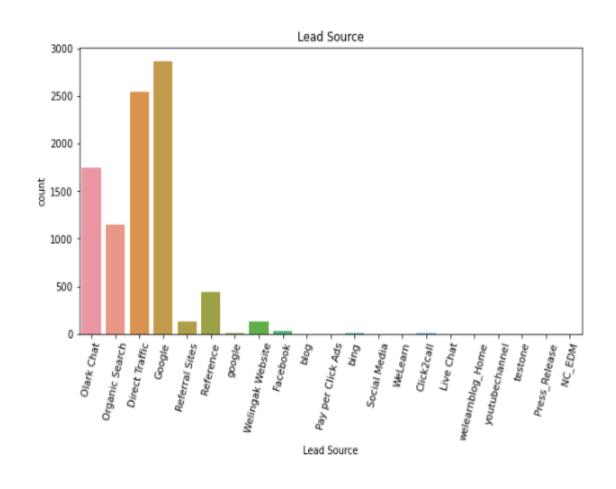
Data Cleaning and Preparation

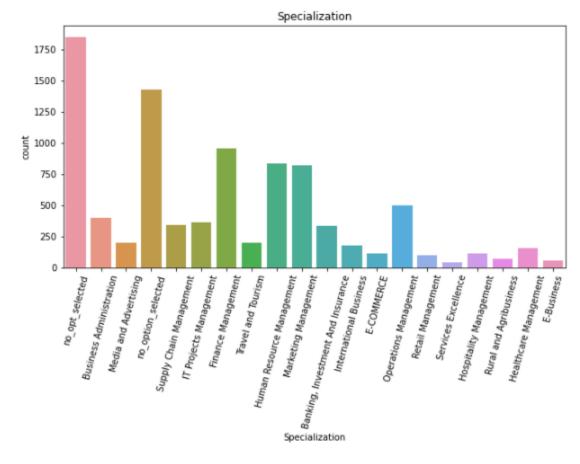
- Dataset contains rows: 9240 columns: 37
- Remove Columns which contains null values greater then 35 % and which contains single value for all datapoints.
- Visualization of Cleaned Data.
 - Univariant Analysis
 - Bivariant Analysis
- Dummy Variable are created for object type variable
- Spilt data in Train and Test ratio used is 70:30.
- Numeric variables are Normalized

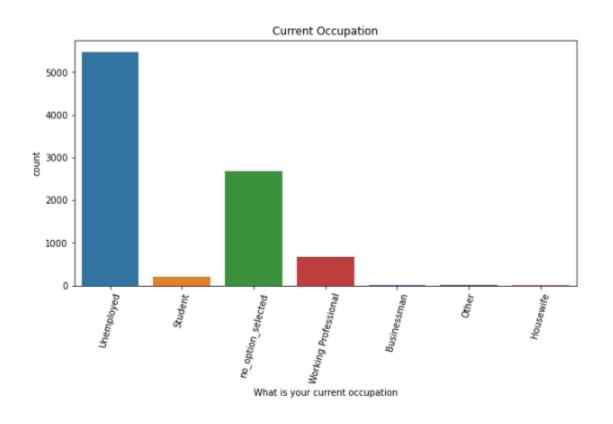


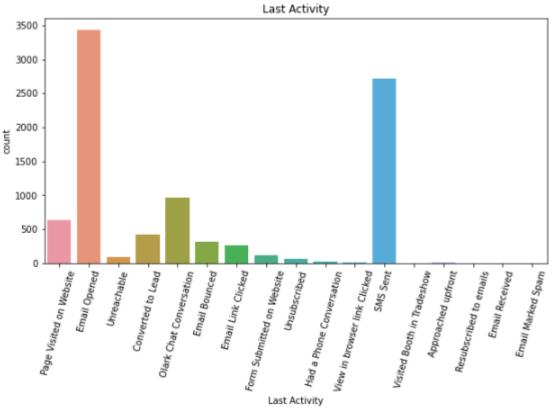




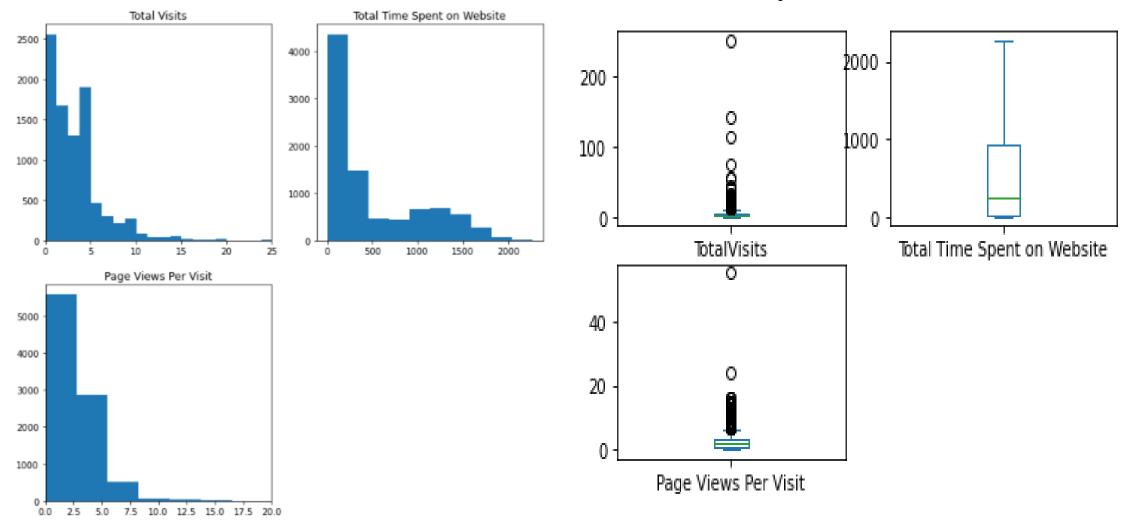


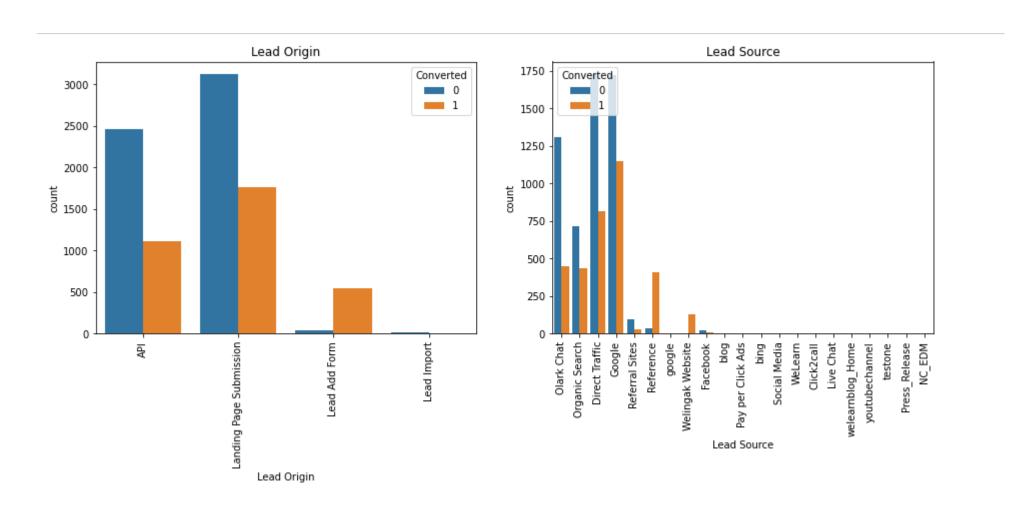


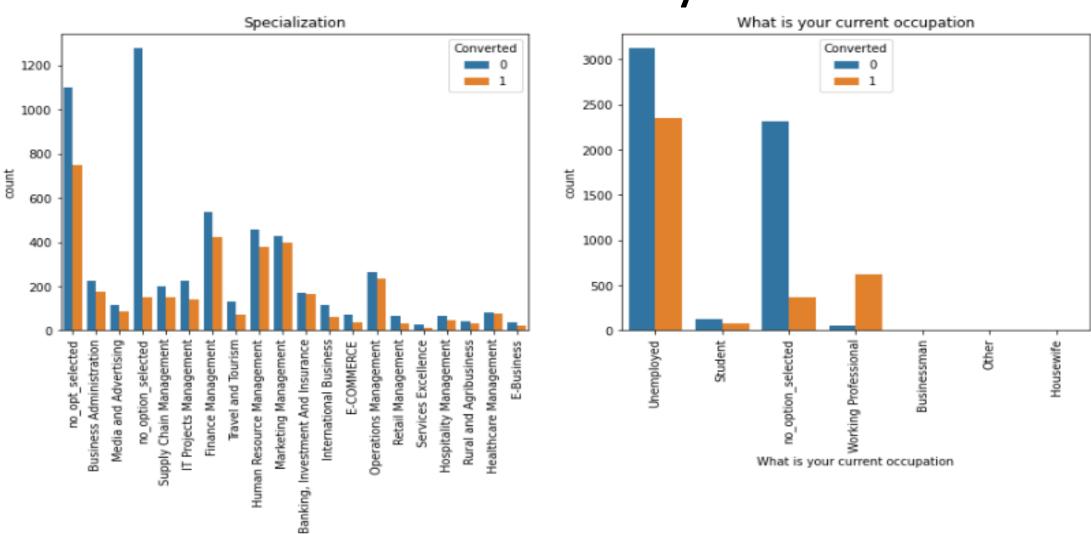




Numerical Variable Univariant Analysis & Outliers

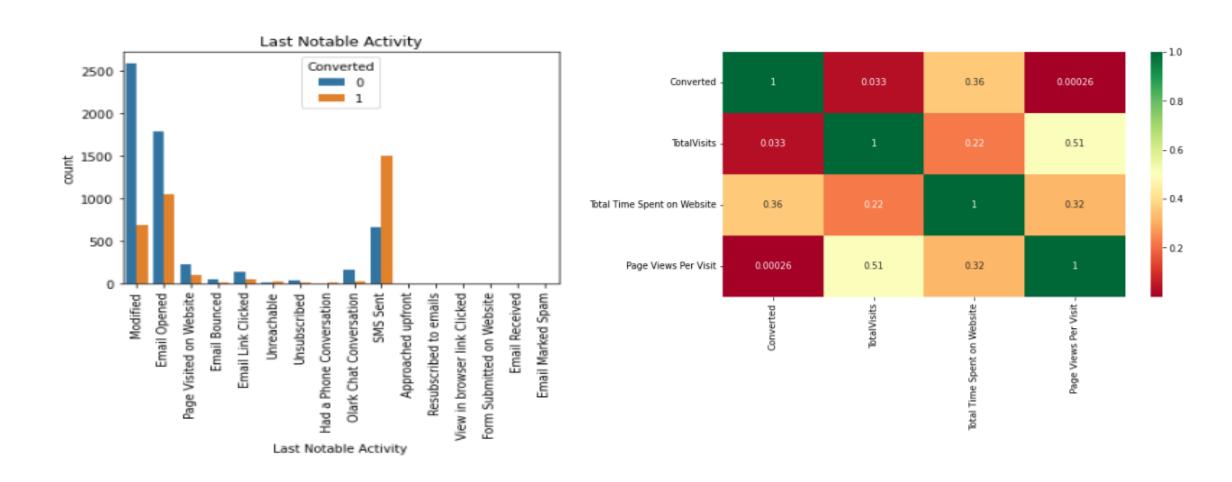






Specialization

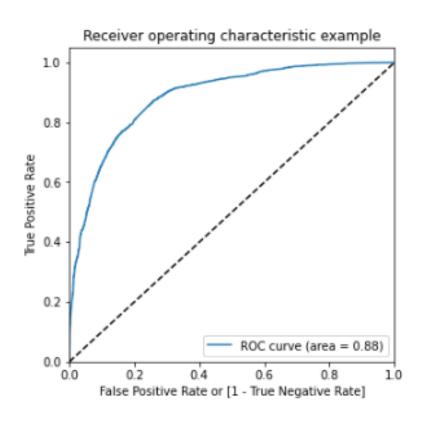
Bivariant Analysis and Correlation Matrix

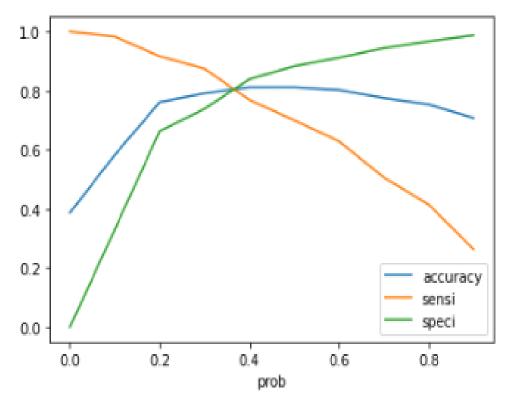


Model Building

- Use RFE for Feature Selection
- Building Model by removing the variable whose p-value is greater than 0.05 and vif value is greater than 5
- Predictions on test data set
- Overall accuracy 81%

ROC Curve and Optimal Cutoff





• From second graph it is visible that the optimal cut off is at 0.35.