




# LEAD SCORING CASE STUDY

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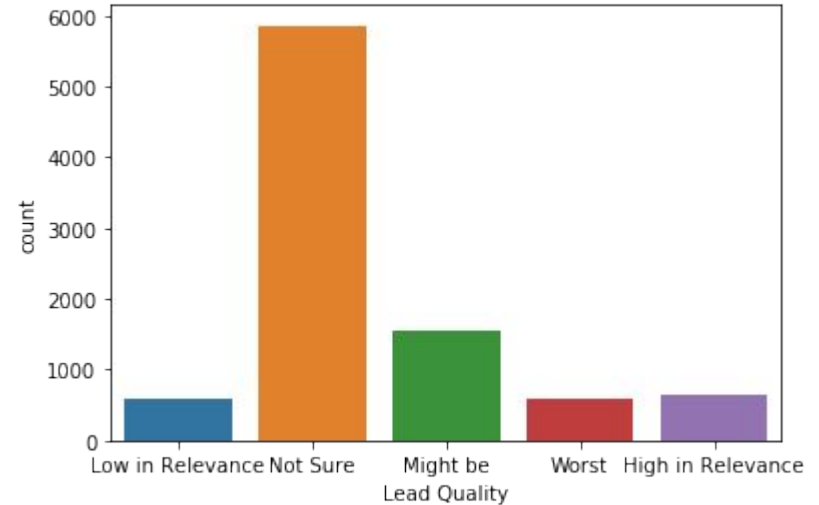
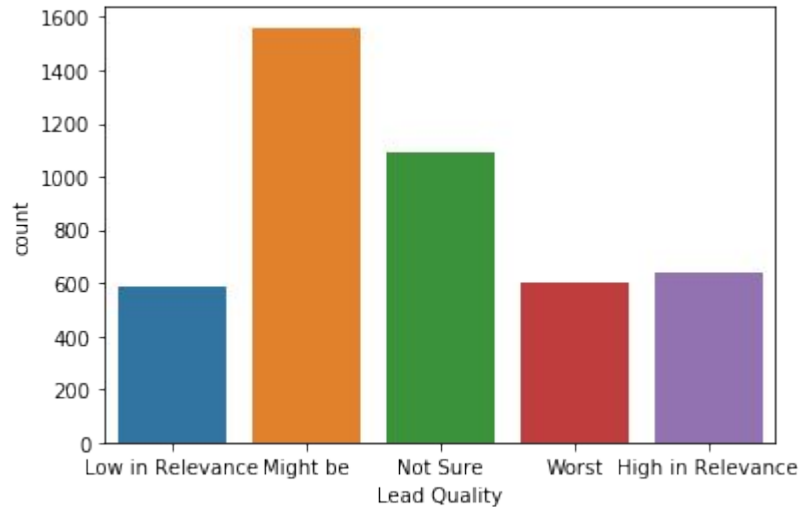
# BRIEF OVERVIEW

Building a model 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.

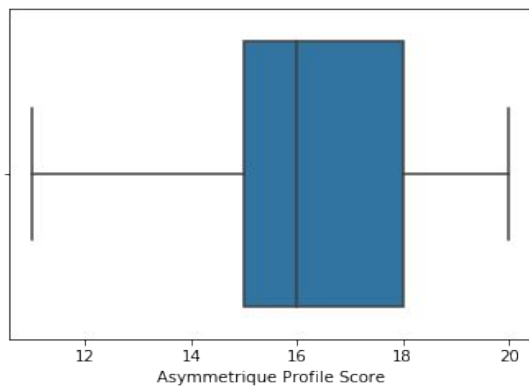
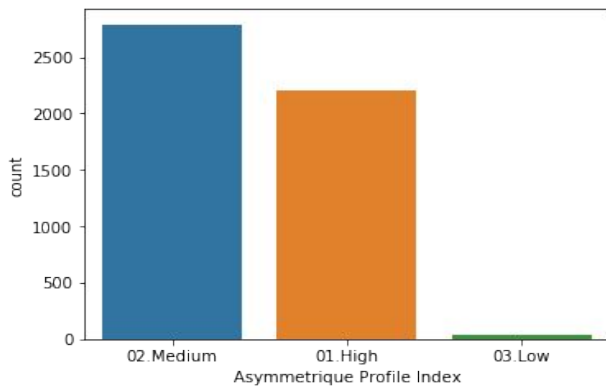
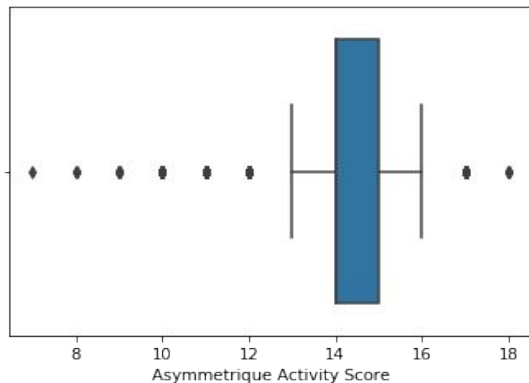
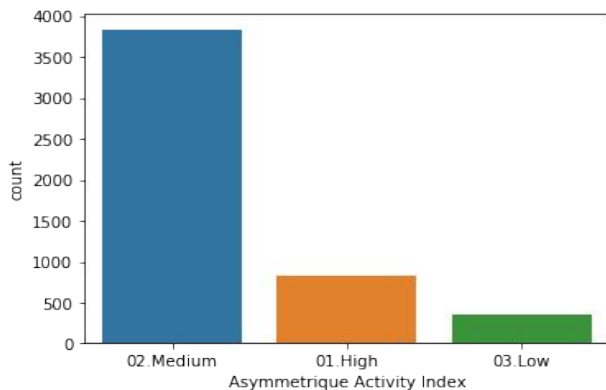
# STEPS TO BE PERFORMED

- Read and Visualise the data
- Data Cleaning
- Exploratory Data Analysis
- Data Preparation
- Test-Train Split
- Model building

# DATA CLEANING

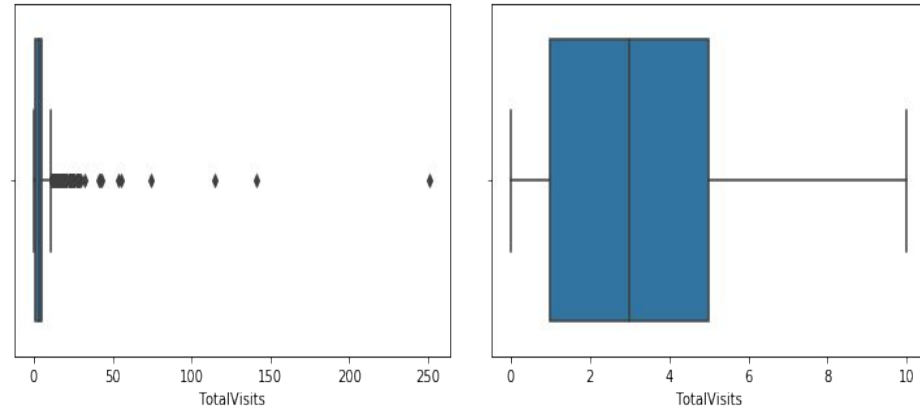
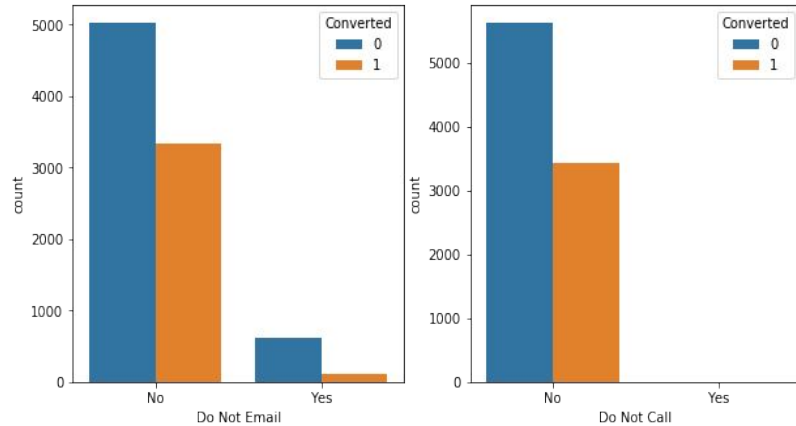


*As Lead quality is based on the intuition of employee, analyze the column and fill the null\_values through the percentage of the sub-categories in the Lead\_quality*

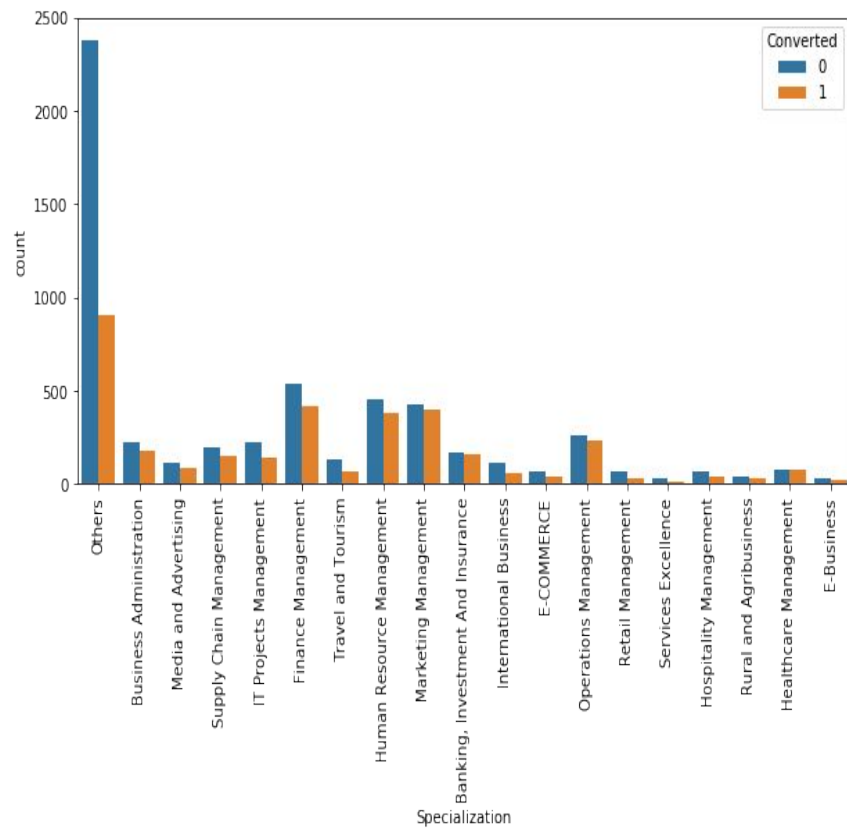
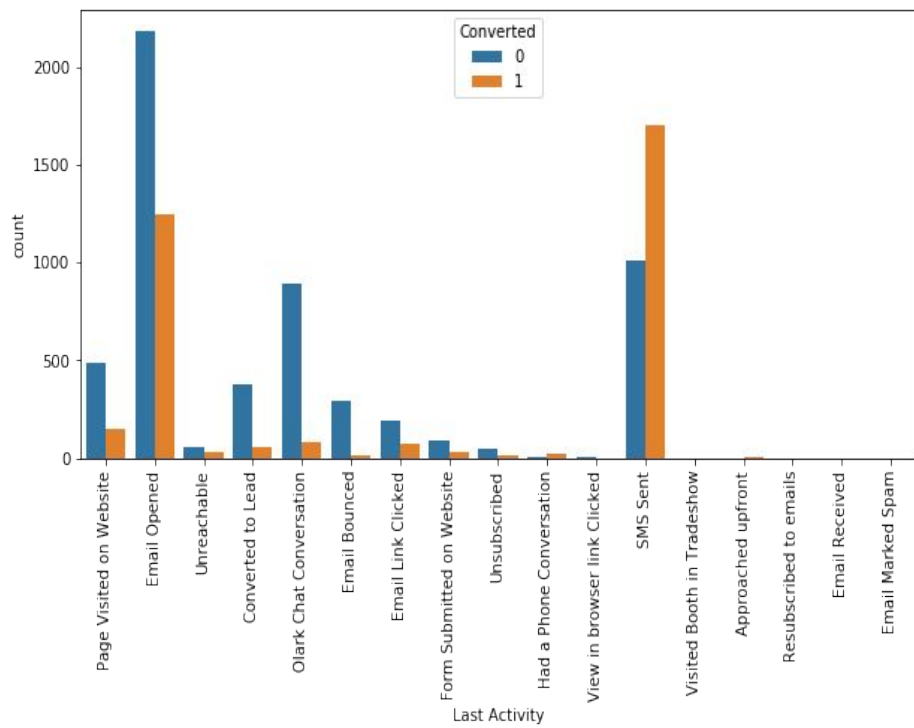


*There is too much variation in these parameters so it's not reliable to impute any value in it so we need to drop these columns*

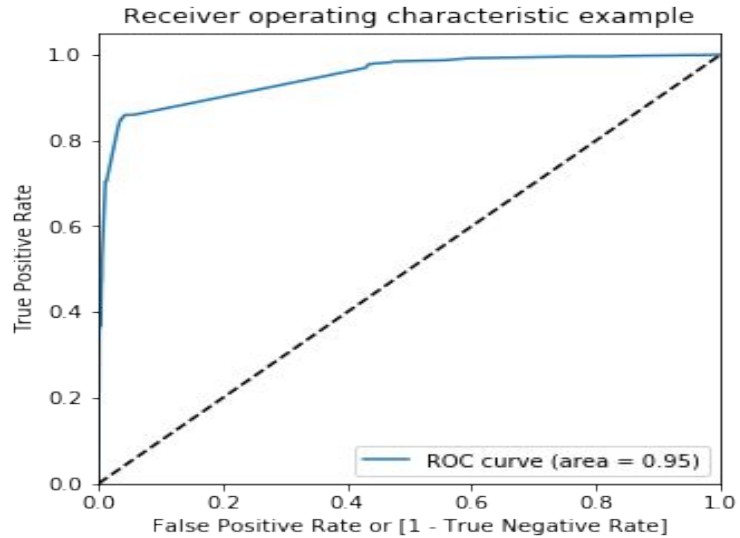
# EXPLORATORY DATA ANALYSIS



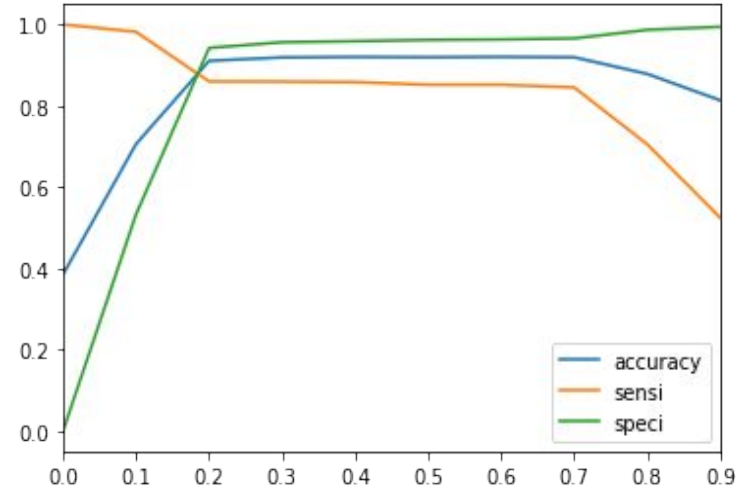
*As we can see there are a number of outliers in the data we will cap the outliers to 95% value for analysis.*



## PLOTTING ROC CURVE



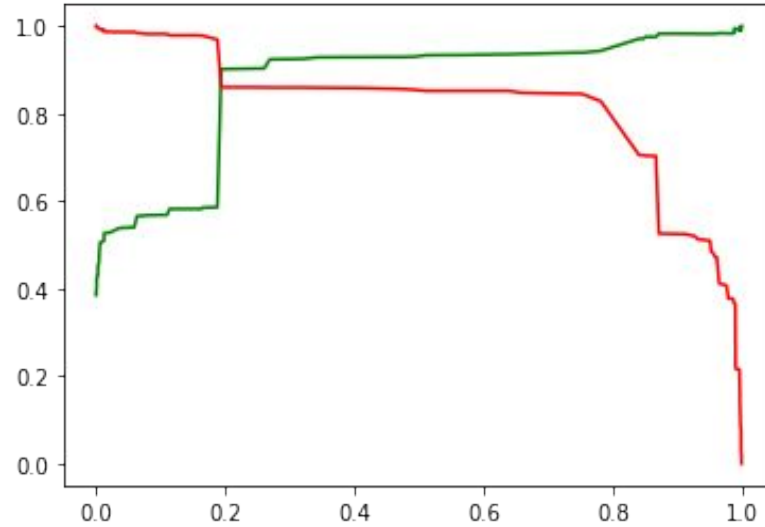
## FINDING OPTIMAL CUTOFF



*From the curve above, 0.2 is the optimum point to take it as a cutoff probability.*



# PRECISION AND RECALL TRADEOFF



## OVERALL METRICS FOR LOGISTIC REGRESSION MODEL

Accuracy = 0.90

Sensitivity = 0.84

Specificity = 0.94

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