## **Summary Report**

## **Steps Performed**

- ▶ Data Import
  - Reading and Visualizing the Data
- ▶ Data Preparation and Cleaning
  - ► Treating Missing Values (Dropping columns with high missing percentage)
  - ► Removing Highly Skewed Columns
  - ► Treating Outliers
- Data Modelling
  - ► Train Test Split
  - Scaling of data
  - ► Iterative Modelling using coarse tuning (RFE + Manual Tuning)
  - ► Modelling using Logistic Regression's GLM
  - ► Checking key parameters like Accuracy, Sensitivity, Specificity, ROC Curve, Optimal Cutoff, Precision and Recall
- Prediction using the derived model
  - ► Running the model on Test Data Set
  - ► Checking the key parameters whether model performs good on unseen data

## **Key Parameters Decoded:**

Parameters	Train Data	Test Data
Accuracy	92.07%	91.78%
Sensitivity	93.12%	93.64%
Specificity	91.42%	90.64%
Precision	94.30%	86.03%

## **Feature Importance:**

Tags_Closed_by_Horizzon	
Tags_Lost_to_EINS	
Lead_Source_Welingak_Website	
Tags_Will_revert_after_reading_the_email	
What_is_your_current_occupation_Working_Professional	
Last_Activity_SMS_Sent	
What_is_your_current_occupation_Unemployed	
Last_Notable_Activity_Modified	
Tags_Graduation_in_progress	
Tags_opp_hangup	
Tags_Interestedin_full_time_MBA	
Tags_Interested_in_other_courses	
Tags_Diploma_holder_(Not_Eligible)	
Tags_Already_a_student	
Tags_Ringing	
Tags_switched_off	-4.64
Tags_invalid_number	
dtype: float64	