

CAPSTONE PROJECT ON TELECOM CHURN DATASET

PREPARED BY: DEEPAK KASHYAP

IMPORTANT LIBRARIES USED

NUMPY

MATPLOTLIB

SEABORN

SKLEARN

PANDAS

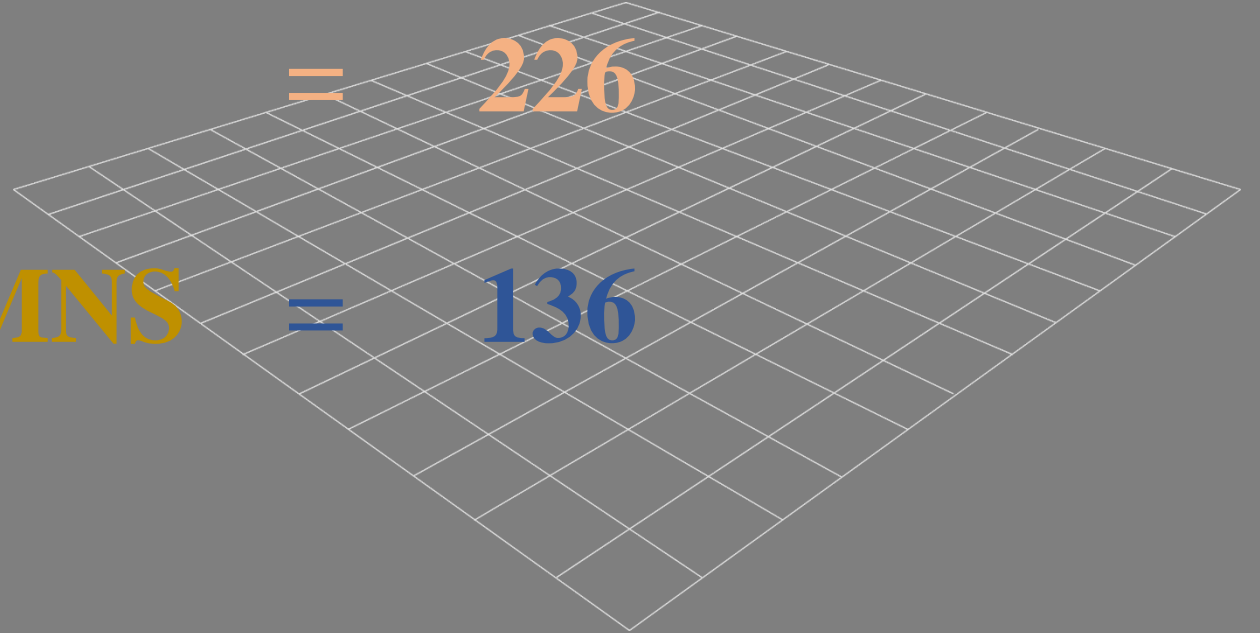
WARNINGS

DATA SET INFORMATION

TOTAL ROWS = 99999

TOTAL COLUMNS = 226

NULL VALUE COLUMNS = 136

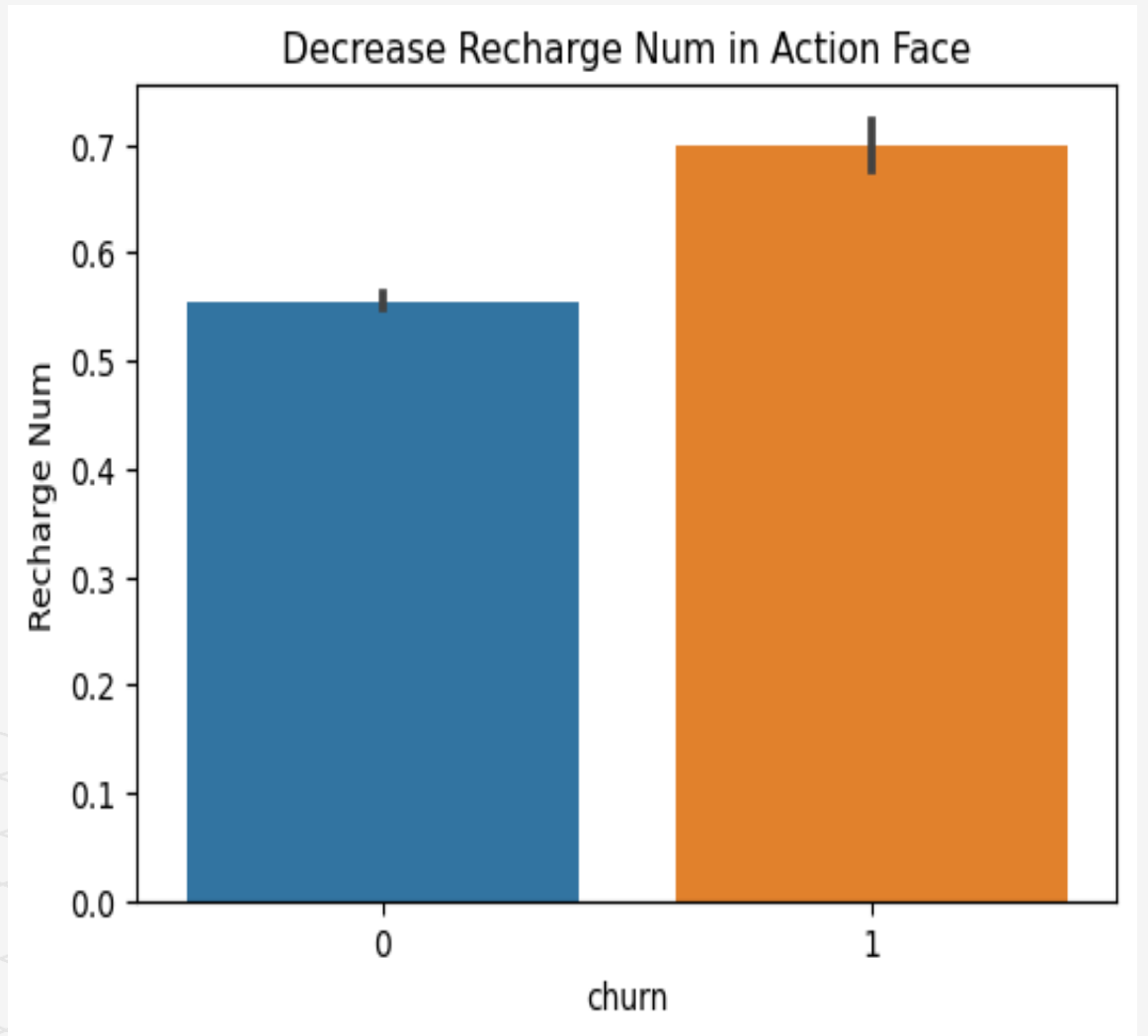


NULL VALUES TREATMENT

- ❖ **DROP THE COLUMNS WHO HAVE MORE THAN 40% MISSING VALUES WHICH ARE TOTAL 40 COLUMNS**
- ❖ **AFTER THAT DROPPING DATE AND CIRCLE_ID COLUMNS BOTH ARE NOT REQUIRED FOR FURTHER PROCESS**
- ❖ **DROP ALL THE ROWS WHO HAVE NULL VALUES**
- ❖ **AFTER MISSING VALUES TREATMENT THERE ARE 29897 ROWS AND 178 COLUMNS**
- ❖ **AFTER THAT FIND OUT THE VALUE OF 70 QUANTILE OF GOOD PHASE WHICH IS 368.5**
- ❖ **REMOVED OUTLIERS BELOW 10TH AND ABOVE 90TH PERCENTILE AFTER THAT DATASET HAVE 25563 ROWS AND 136 COLUMNS**

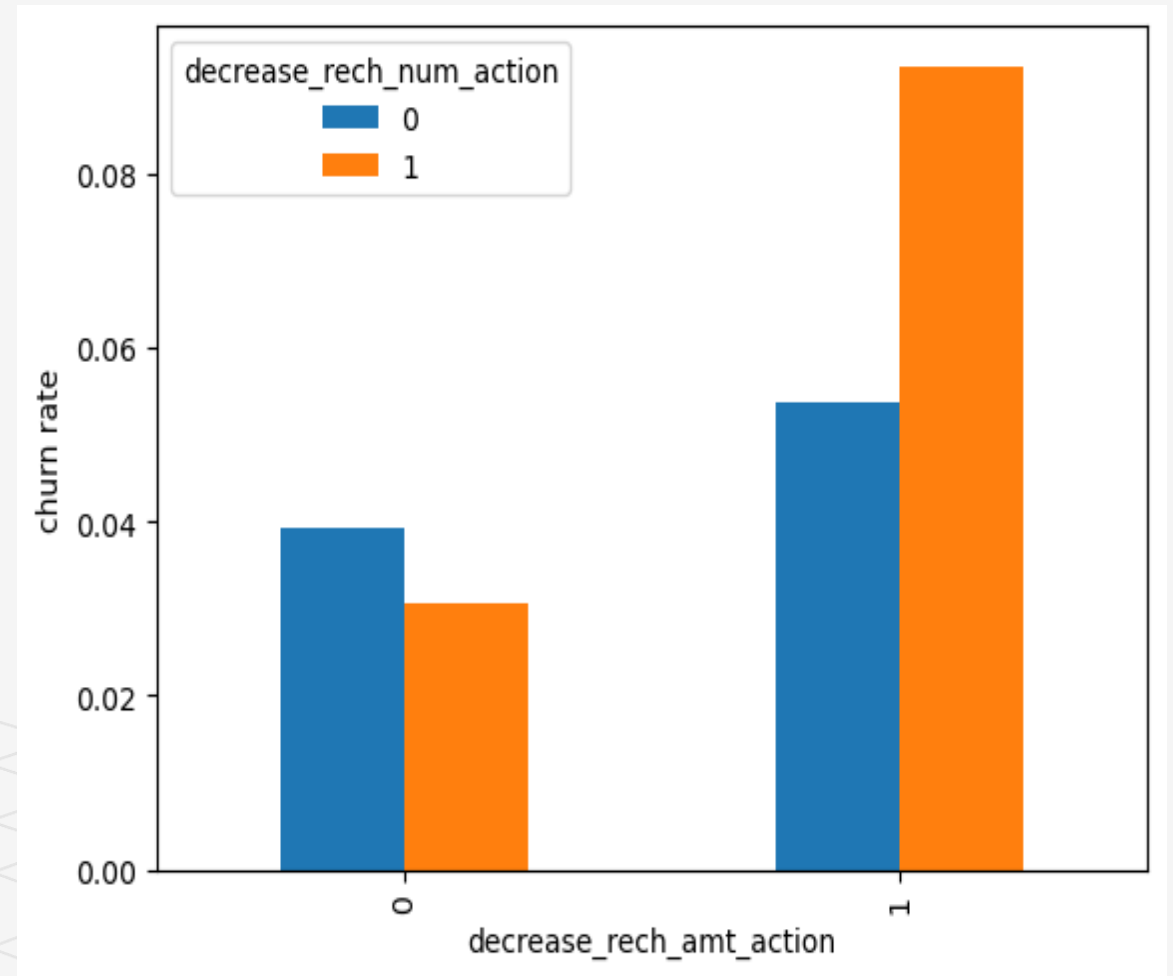
PLOTTING THE DATA

**PLOTTING THE CHURN DATA
IN ACTION FACE ON THE
BASIS OF NUMBER OF
RECHARGE**

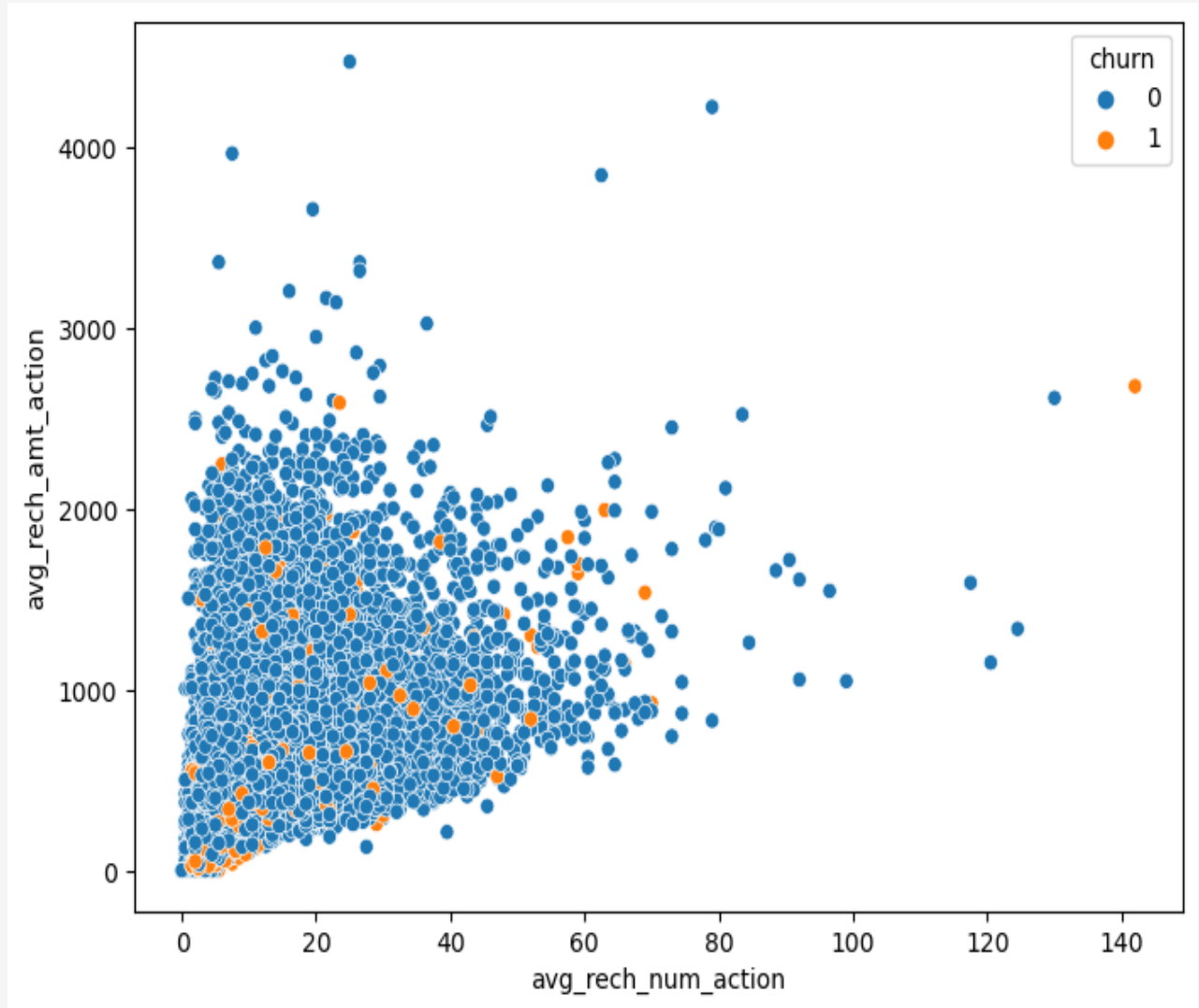


PLOTTING THE DATA

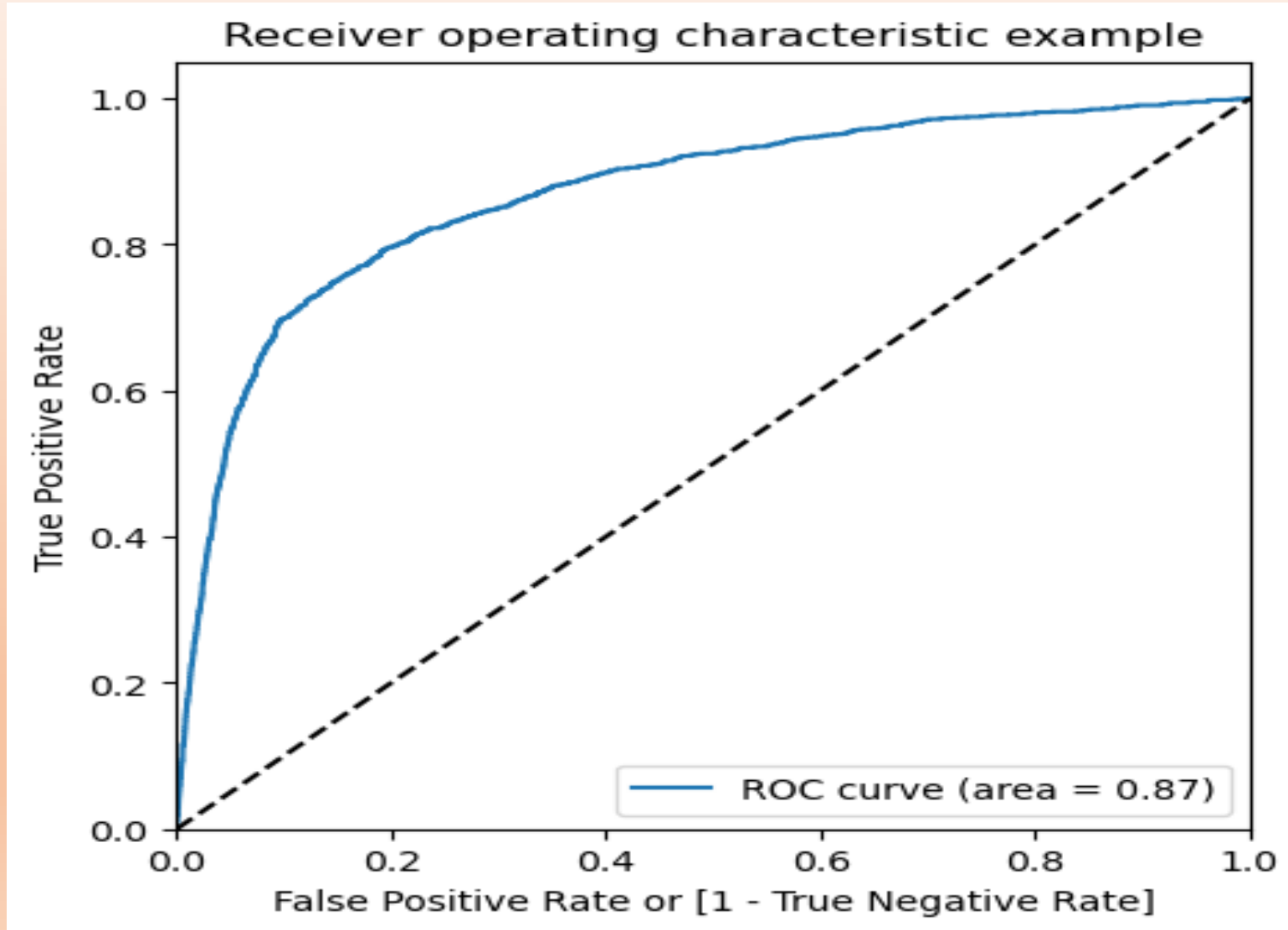
**PLOTTING THE DATA ON THE
BASIS OF DECREASE
RECHARGE AMOUNT IN
ACTION PHASE**



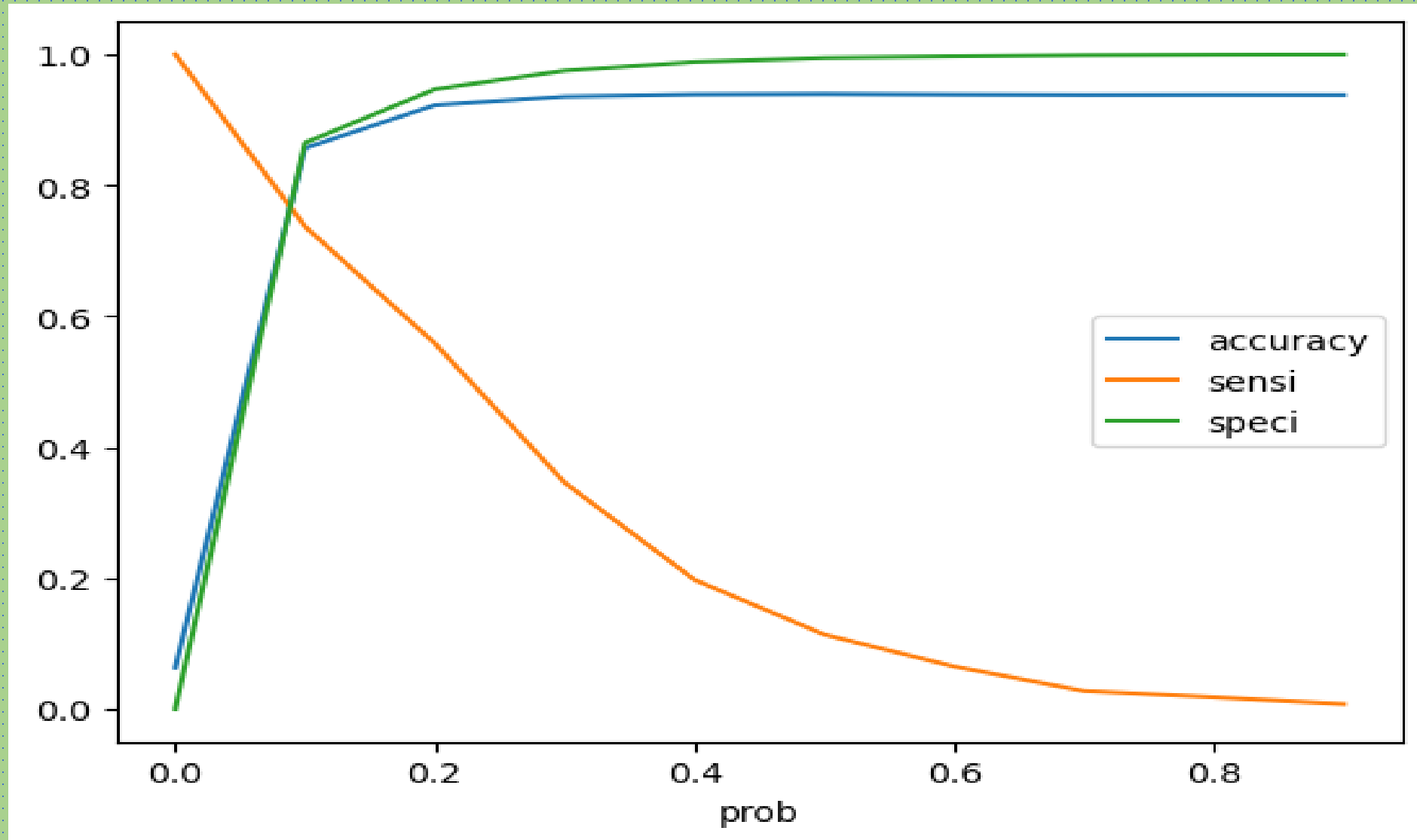
**PLOTTING SCATTER PLOT
ON THE BASIS OF AVERAGE
RECHARGE AMOUNT AND
NUMBER IN ACTION FACE
WITH THE HUE OF CHURN**



ROC CURVE PLOT OF TELECOM CHURN DATASET



PLOT ACCURACY, SENSITIVITY AND SPECIFICITY FOR VARIOUS PROBABILITY



TELECOME CHURN DATASET ANALYZER FINISH

*THANK
YOU*

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