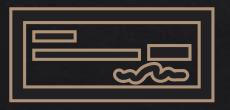
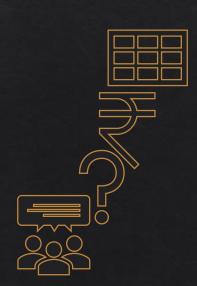
Credit EDA Assignment



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INTRODUCTION

- ✓ The Case Study is related to Financial Institution especially of Lending Money.
- ✓ Risk for Loss is Greater in this Business Category.
- ✓ The Case Study aim applying EDA in real world problem



BUSINESS OBJECTIVE

- The company wants to understand the driving factors (or driver variables) behind loan default, i.e. the variables which are strong indicators of default through this case study.
- The company needs to understand the pattern of defaulter.
- ➤ & The company can utilize this knowledge for its portfolio and risk assessment.

EXPLORING DATA

- ➤ Data available are Previous Applicants, Column Description & Current Application.
- > Previous Application: Customers who have already took loan.
- ➤ Column Description : This Data gives information of al columns present at other two data set.
- Current Application: This Data gives details of customer who have applied for loan currently & all other details related to them.



EXPLORING DATA

- We will start exploring the application of current Applicants then previous applicants.
- Data available for Current Application consist of :
 - Entries: 307511*122 (Rows & Columns)
- Data available for Previous Aplliacation consist of :
 - Entries: 1048757*37 ((Rows & Columns))

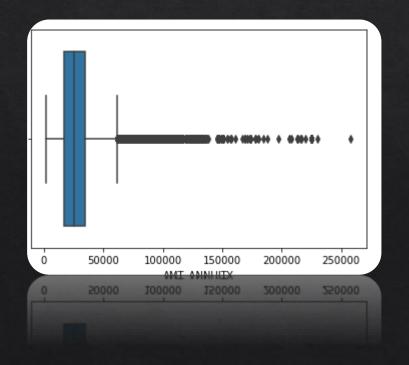


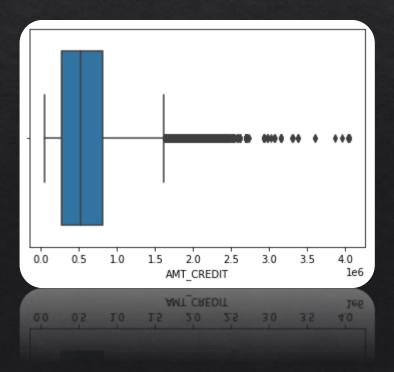
DEALING WITH MISSING/NEGATIVE VALUE

- ➤ In the Data we have missing value.
- Sum of the Null Value in Current Application is 9152465.
- The Column which have more than <u>35%-40 % missing value</u> its advisable to drop that those columns.
- We make sure the columns which we are dropping doesn't effect our analysis.
- After dropping the Null Value Columns we have 75 Columns in the Data in current application & 26 in Previous Application Data
- Missing Data with less than 40% is imputed with Mode, Median & Mean.
- ➤ Negative will also neutralize with absolute number

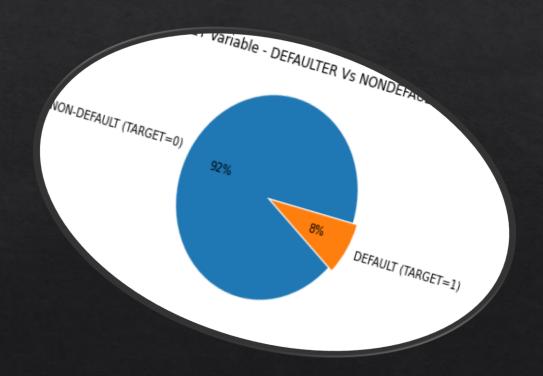
ANALYSIS DATA

- During the process we have observe there are few columns which have the Outliner.
- So we deal with these with Binnig Methods & balance the Outliner with required quantile.





RATIO OF TARGET: 8% of APPLICANT difficulties in payments & 91.92% are having no difficulties

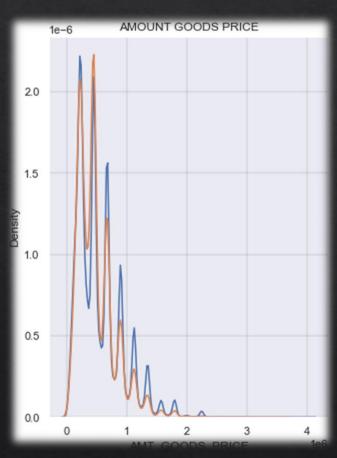


AMT_CREDIT_RANGE

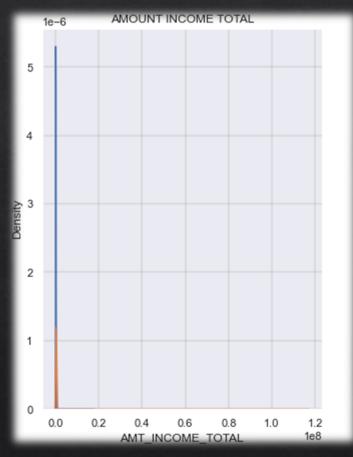


- > APPLICANT WITH HIGH & VERY HIGH LIKELY TO PAY ON TIME
- > APPLICANT WITH MEDIUM CREDIT ARE NOT LIKELY TO PAY ON TIME

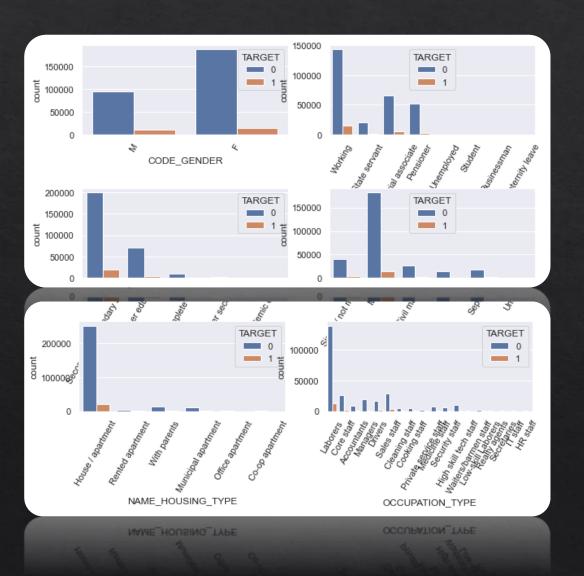
AMT_GOODS_PRICE



AMT_INCOME_TOTAL



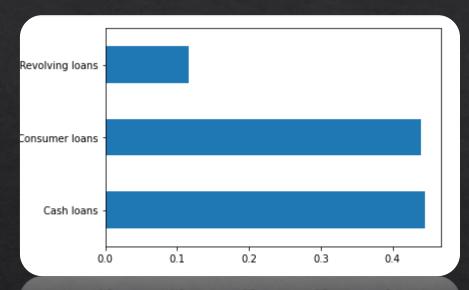
- ➤ APPLICANT WITH INCOME TOTAL MORE THAN 1.5 ISVERY HIGH LIKELY TO PAY ON TIME
- > APPLICANT WITH INCOME TOTAL LESS THAN 1.0 ARE NOT LIKELY TO PAY ON TIME



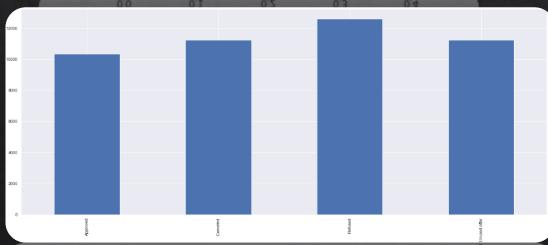
- Applicant with Gender Female are more likely to pay on time
- Applicant with occupation type core staff, laborer are more likely to pay on time.
- Applicant with Secondary Education is more likely on time.
- Applicant as an working class are likely to pay on time.
- Applicant with HR Profession is not likely to pay on time

ANALYSIS DATA: CONTRACT_STATUS

PRODUCT TYPE

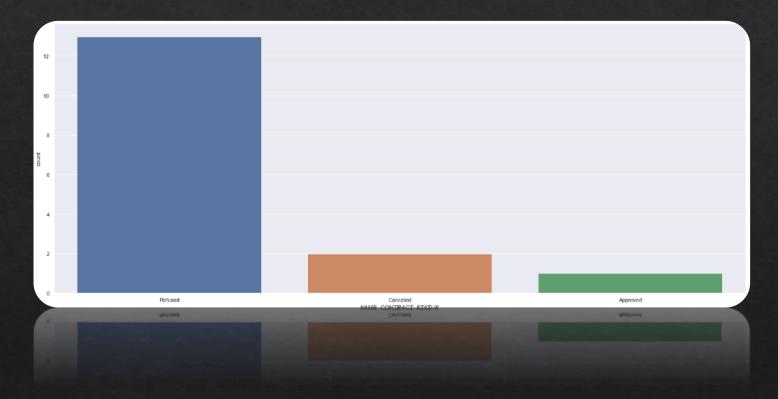


- Applicants are more likely to take cash loan in Previous Data.
- The Rate of Rejected is high in Previous Data.



T A T U S

S



> Applicant which are more likely to pay on time are refused.

ANALYSIS DATA AFTER MERGING THE DATA





- Applicants are high Annuity & credit are likely to pay on time.
- Applicant with more than 1,00,000 Cre dit & Annuity more thans 2 lacs.

ANALYSIS DATA AFTER MERGING THE DATA



Applicant are more of Repeater & Loan type applied is most for Cash Loan.

CONCULSION

Female are more likely to pay on time.

Applicant with occupation Core Staff are more likely of Non-Defaulter Category.

Applicant with Married Status are likely to pay on time.

Applicant with Annuity more than 2 Lac is like to pay on time.

Applicant with Credit more than 1 Lac is likely pay on time.

Applicant of Working Class are likely pay on time

THANK YOU

