Credit EDA Assignment

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Data cleaning

BEFORE DOING ANYTHING WE NEED TO MAKE THAT RAW DATA INTO OPERATIONAL DATA.

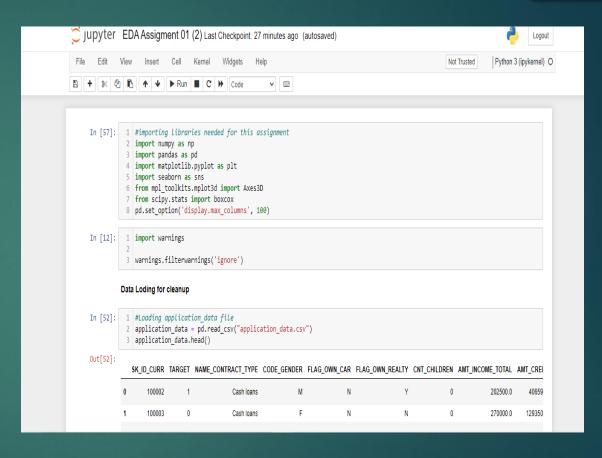
FOR THAT WE NEED TO FOLLOW SOME STEPS ACCORDING TO DATA SET

WHICH INVOLVES MANY THINGS LIKE, TAKING NULL VALUES, EXTRA COLUMN, UNWANTED DATA AND MANY OTHER THINGS

Data cleaning steps

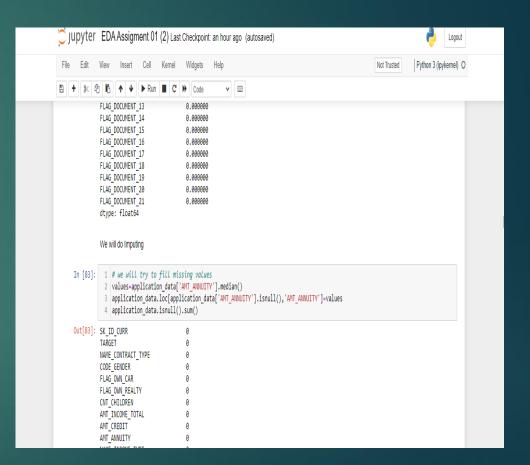
Counting Null Values

- Removing Null values
- Removing extra columns
- Removing unwanted data
- Perform analysis then



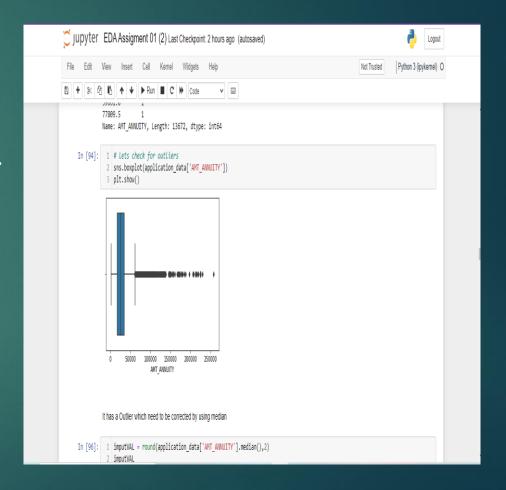
Just couple of more steps mentioning

- Identifying the row with less date like les than 30%
- Remove all unwanted columns
- Rename columns wherever its needed
- Start Imputing where its needed



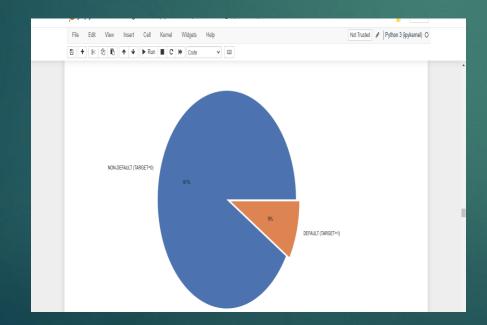
Data Analysis

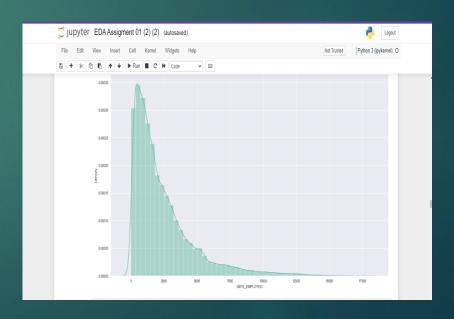
- Finding Outliers through Graphs
- Droping unwanted values
- Modifying different rows to make it operational.



Data Understanding for Analysis

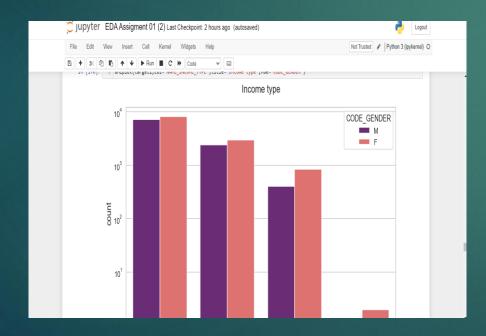
- ▶ Univariate and Bivariate
- Univariate analysis looks at one variable
- And Multi variate

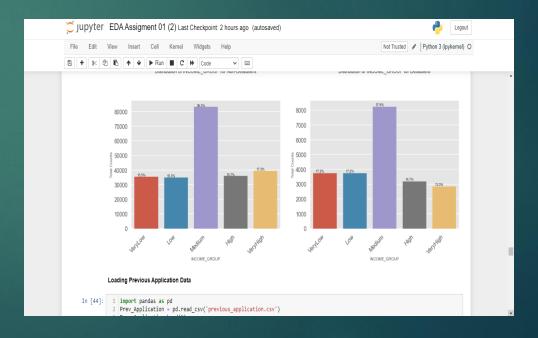




Data Analysis

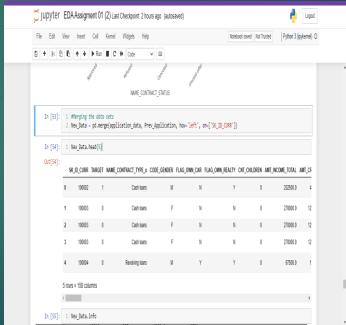
- ▶ We need to know the condition income type
- ▶ Then also need to find the relation





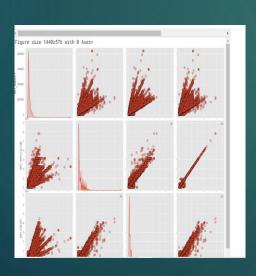
Data Merge

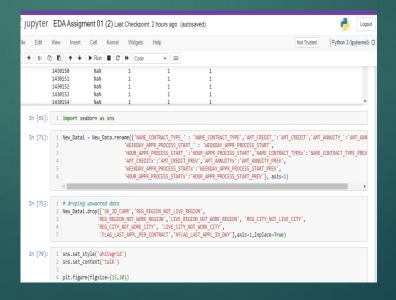
- ▶ After analysing all the data we can perform the merge operation
- After joining then only we can develop the relation between in order to analyse fur.ther



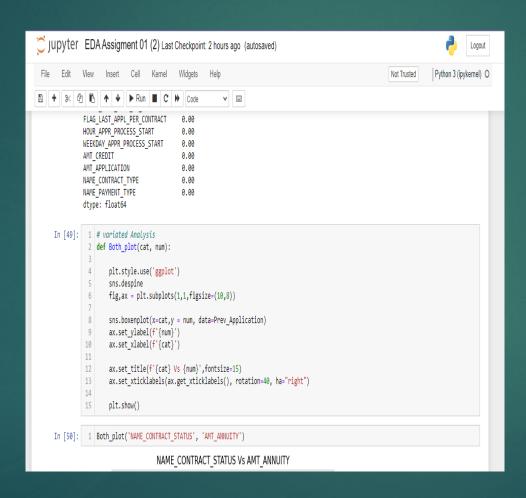
Univariate Analysis

- Some more analysis is needed to understand as we know after merge there are few departments having high defaulter who failed in repayment
- Data cleaning will still the first approach for second data set as it is possible that previous data can have some errors



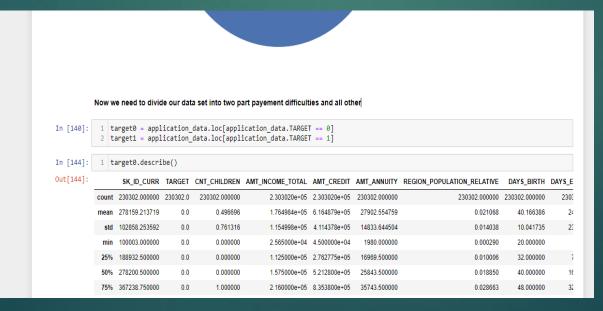


Variate analysis on Previous data set

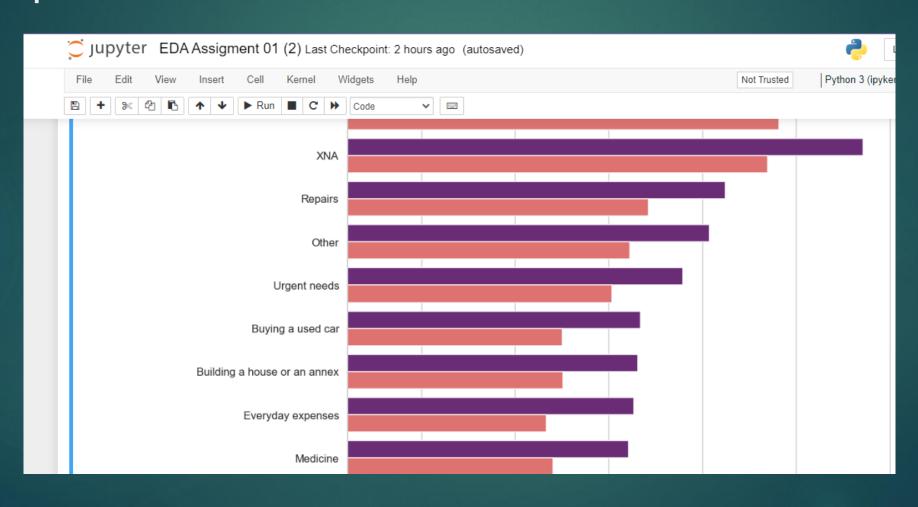


Data Merge Analysis

- Try perform corelation on both data set in order to get the extact understanding and used different Graphs to understand the data impurities.
- Also Divided data set into two parts first so that we can perform different analysis simultaneously like univariate, multivariate

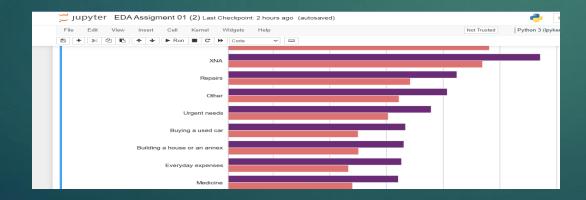


Result Part compare to Business requirements



Conclusion Part

- Univariate analysis looks at one variable
- Banks Should consider and take care of loan request made by unemployed like Student loan and form average sector like small Business Sector
- ▶ Education Type has many difficulties in loan repayment.
- Default list is also greater for Repair group.



Assumptions on basis of Results

- We can see that the people who were approved for a loan earlier, defaulted less often where as people who were refused a loan earlier have higher chances of defaulting.
- We see that code gender doesn't have any effect on application approval or rejection.
- But we saw earlier that female have lesser chances of default compared to males. The bank can add more weightage to female while approving a loan amount

THE END THANK YOU