



Credit EDA Case Study: Doubts Session

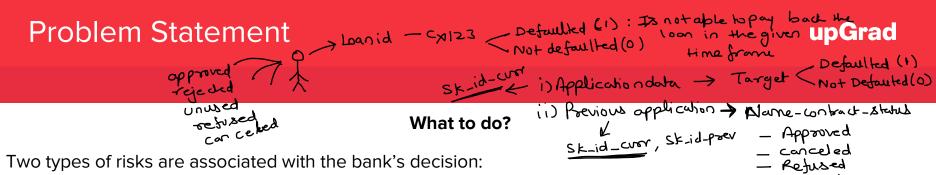




What we will cover in this session?

- 1 How to start with the "Credit EDA Case Study"
- What are the important steps that should be included
- 3 Points to remember
- 4 Python Demo
- 5 QnA





Two types of risks are associated with the bank's decision:

- If the applicant is likely to repay the loan, then not approving the loan results in a loss of business to the company.
- If the applicant is not likely to repay the loan, i.e. he/she is likely to default, then approving the loan may lead to a financial loss for the company.

The company wants to understand the driving factors (or driver variables) behind loan default, i.e. the variables which are strong indicators of default

How to Solve? CX - continuals CX - categorical What to do? in the column Start by importing the 'application_train.csv'. Check the structure of the data(Normal routine check). Data Quality Check and Missing values

3.C: You don't need to actually

impule the data, but report the best value that can be used to impose the missing what (At least 5 columns)

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tornat

df.shape -df.dhypes Find the percentage of missing values for all the columns.

Remove columns with high missing percentage. (>501) For columns which has less percentage(around 13% or so), you need to check what will be the best metric to impute the missing values? Like if the column you are checking is a categorical column check, which category you can use to fill the nulls. For others check does

Calcapical — ഡ്ലാൻ mean or median can be imputed or not. Others cases may be imputing with 0. You need to ັປ ເມດນຳດນວນໄຊ້ພິພະ do this task for some variables and not for all, say 5. Check the datatypes of all the columns and change the datatype like negative age and date.

> For numerical columns check for outliers and report them for at-least 5 variables. Add observations and reasoning. + Binning of continuous variables. Check if you need to bin any variable in different categories. Amount

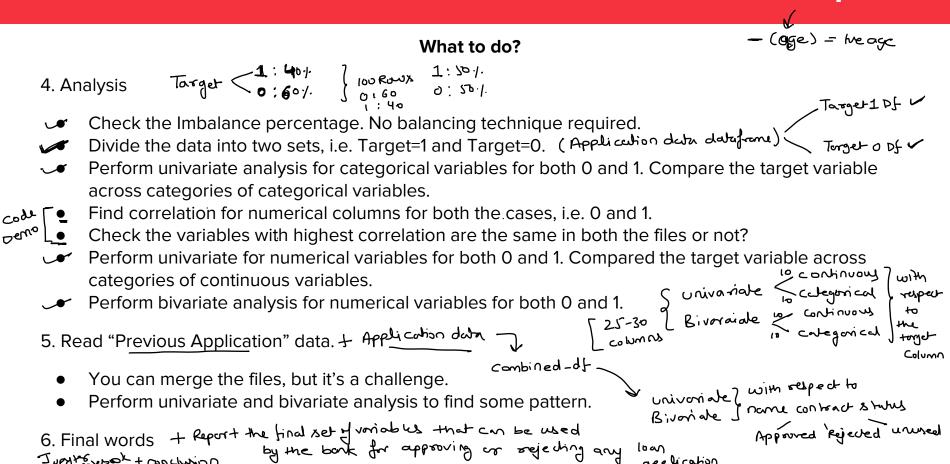
Do this for at least 2 variables.

 $\mathbf{F} \bullet$

How to solve.. Continue.

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Based on your analysis, define the results and conclusion.

application

- Keep in mind "There is no correct or incorrect solution".
- Every approach is correct if you are able to answer all the questions asked.
- The main objective of this case study is to learn and implement EDA techniques. So don't focus so
- Remember you need to use plots and then understand the pattern. Then report your analysis in your notebook or PPT. No marks will be awarded if you have just plotted so many variables and have not explained the pattern.
- It's not possible to cover all the columns, so try to cover some of them. Based on the plots you get, try to identify the important variables.

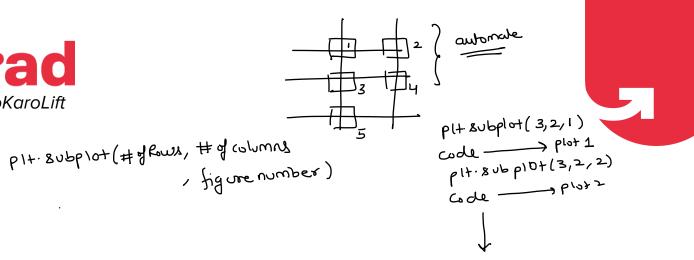
My data contains two classes 0 and 1. The total number of rows in my data is 150. The count of rows for class 1 is 40. What is my Imbalance percentage for class 1?

- A. 47%
- B. 38%
- C. 27%
- D. 26%

I have two files df1 and df2, both files have a common primary column as "ID". I need all rows from my df1 data and only the common rows from the df2 data. Which join should I use?(df1.merge(df2))

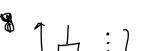
- A. Right
- B. Inner
- C. Left

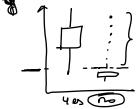


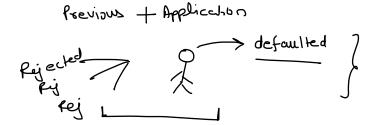


Python Demo. Let's Code











dropna ()

Thank You!