# Leading Club study

#### Group members:

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- 1.0bjectives
- 2. Approach
- 3, EDA graphs and analysis
- 4 Result the conclusion of the analysis

### Objectives of this case study

In a online loan company the loan application are received, and the decision needs to be made considering the risky factors

Driving factore (Derived variables) needs to understood behind the loan defaults We need to help with risk assessment, using our skills in EDA analysis

### Our approach for the analysis

Segmented Univariate Bivariate univariate Results Data Cleaning analysis analysis analysis Making the data Univariate We have now **Analysing the** The conclusion is compared the analysis is the joint distribution ready for analysis the analysis default rates by dropping the easiest type of **Using the** across various corelation of the missing values examining variable, and some information. "Uni" Standarding the variables the of the important rows and columns signifies "one", so analysis is done predictors are at the end of the purpose of the day your loan, interest rate, information has annual just a single income, grade etc... variable.

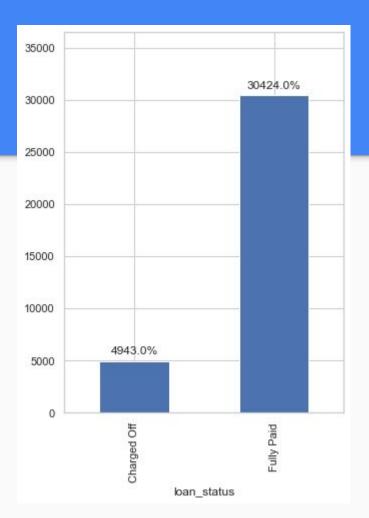
# EDA analysis: Data cleaning

- The unwanted rows and columns are removed
- The columns and rows having more than 50 % of the values are removed
- Checking the data from duplicate values in columns and rows
- Standardizing values of the rows and columns examples if a columns has values with % symbol converting them into appropriate

## **EDA Analysis**

#### Total loans

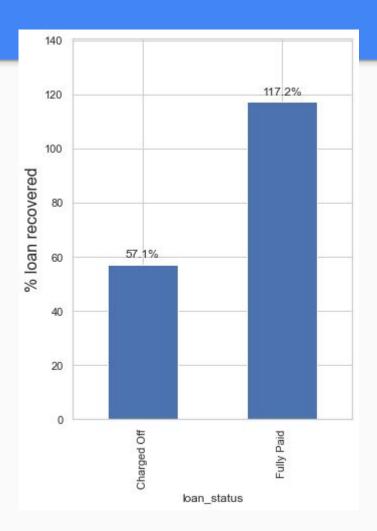
Approximately 14% of loans are defaulted Any variable that increases percentage of default to higher than 16.5% should be considered a business risk.

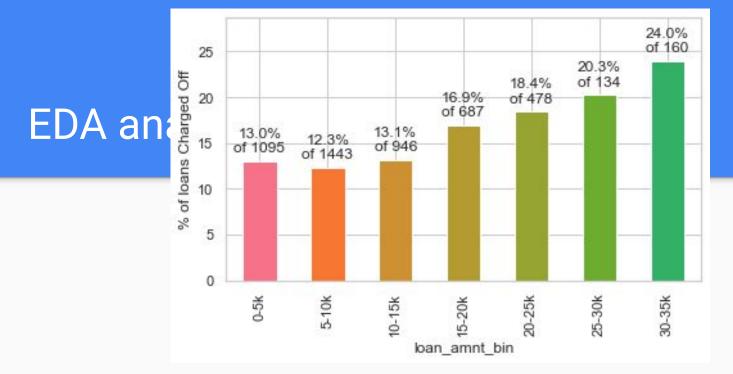


### **Total Money Earned**

57% of the loan amount when loans are defaulted.

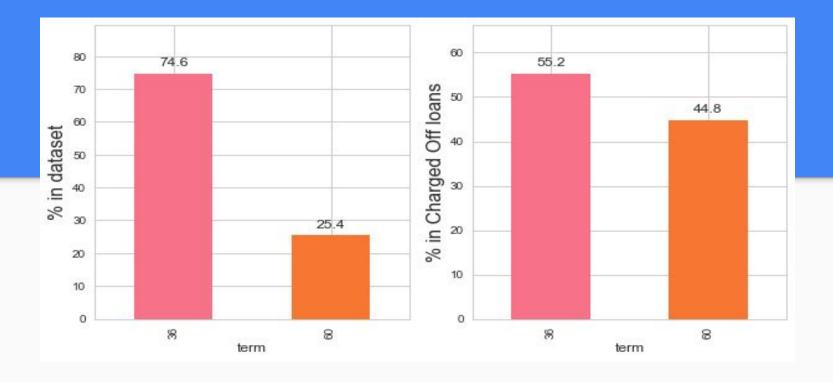
17 % profit is made by loan provider



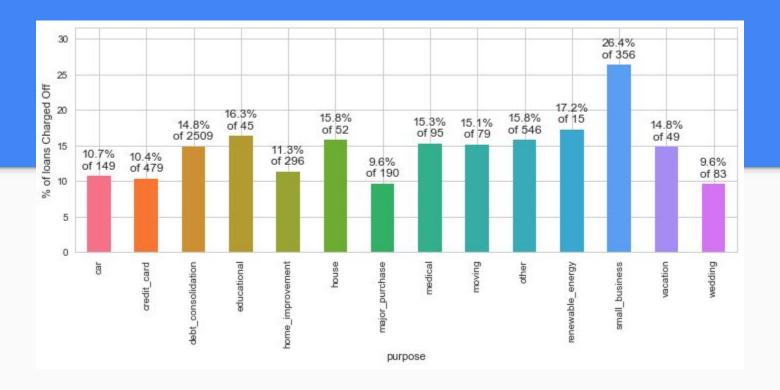


Percentage of charged off loans increases substantially as the loan amount increases.

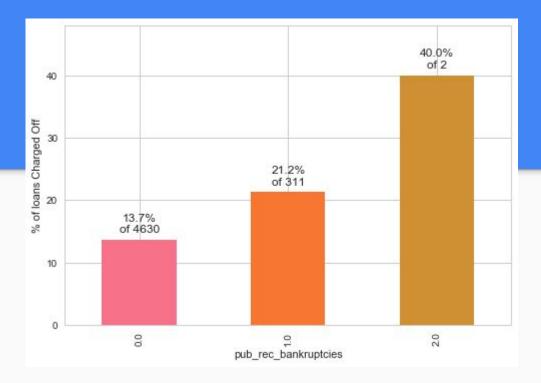
Higher loan has a risk of defaulters



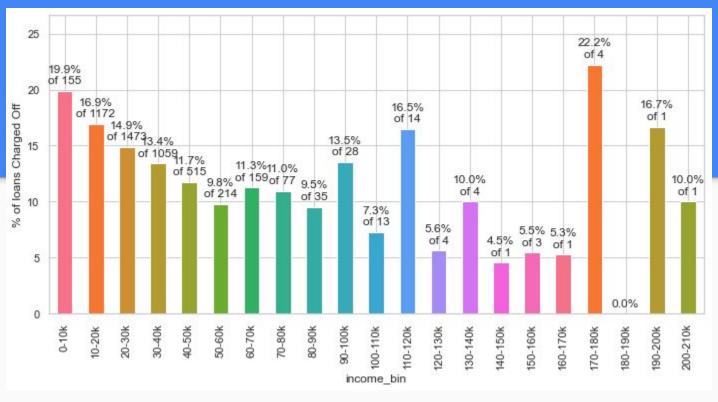
Approx 75% of the total loans are given for duration of 3 years and other 25% of the loans are those given for 5 years. the charged off for term 1 year is 45% so rthe higher tenure of loan lesser chance of charged off



The loans for small business almost 26% are charged off and become risky



Charged off loans increases when the applicant has prior bankruptcy



When the income increases reduces the loan defaulters And loan defaulters are observed with low income,

### Conclusion

- When the income increases reduces the loan defaulters .And loan defaulters are observed with low income ,
- Charged off loans increases when the applicant has prior bankruptcy
- The loans for small business almost 26% are charged off and become risky
- Approx 75% of the total loans are given for duration of 3 years and other 25% of the loans are those given for 5 years. The charged off for term 1 year is 45% so the higher tenure of loan lesser chance of charged off
- Percentage of charged off loans increases substantially as the loan amount increases.
- Higher loan has a risk of defaulters