# Lending Club: EDA Case Study

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## Case Study Analysis

#### Business Problem

- consumer finance company which specialises in lending various types of loans to urban customers. When
  the company receives a loan application, the company has to make a decision for loan approval based on
  the applicant's profile.
- Suggest that whether the person will repay the money.

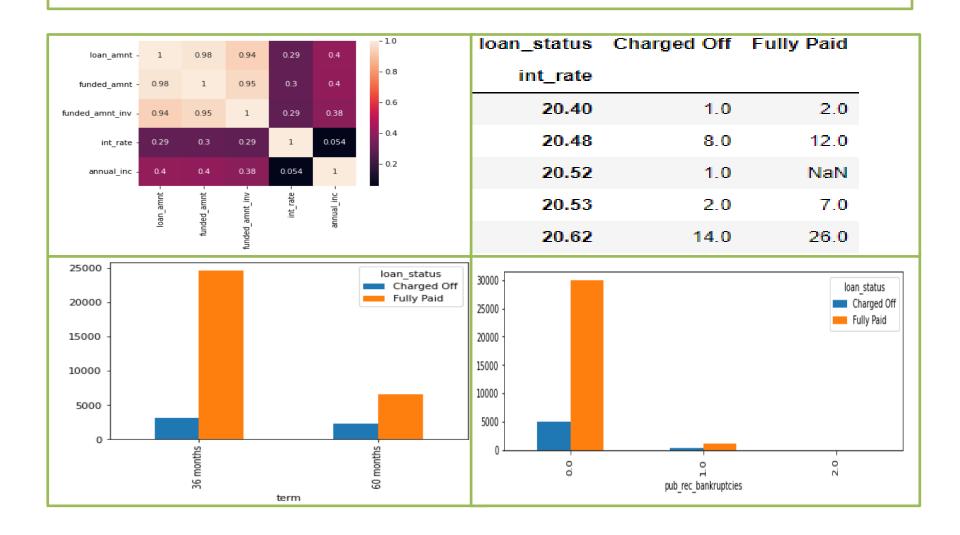
#### Key Observations from Dataset

- Higher the Interest rate and higher the loan amount is causing the Higher charged off.
- Higher Charged off is happening between Sep, Oct, Nov and Dec Month It based on loan issued date.
- Small Business purpose loan has high impact on Charged Off.
- 60 Months payments loans has high impact of charged-off.
- lower income range is the more risky when it comes to loan repayment.
- Higher instalments has more risks of charged off.
- Applicants having public record bankruptcies has more risk of charged off.

#### Key Assumption

- Here we have considered the missing employee length as Zero.
- Here we considered pub\_rec\_bankruptcies empty value as Zero
- We have set the outliner limit as 95% and excluded the records
- Excluded the columns which is not a driving factor and not many unique values.

# Key Observation From Dataset



### Recommendations

- Higher tenure (60 Months) loans are high risky than lower tenure (36 Months) loans.
- Highest loan amount has more risk than compare to lower the loan amount.
- More likely small business has high risk than other categories.
- Higher the interest has more risk of charged-off.
- Lower income has higher interest repayment will have a higher risk of repayment of amount.
- Employment length is also one of the driving factor. Based on the employment length (Higher employment) we can consider to give a loan to a person.
- CA,FL,NY and CA address states has higher charged-off.
- F and G grade has high Charged off ratio.
- Applicants having public record bankruptcies has more risk of charged off.