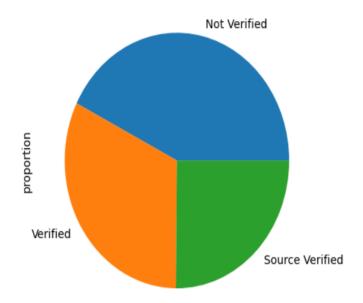
## Lending club case study

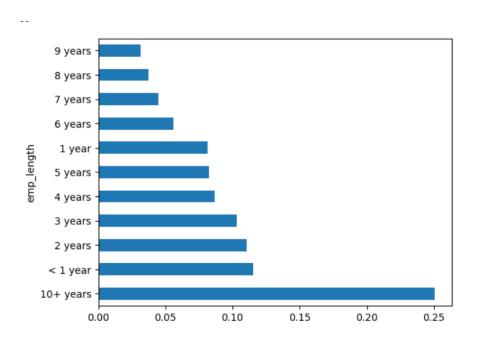
#### Data handling

- Importing the data and checking the data variables.
- Knowing about data using describe statement.
- Checking the missing value count and removing the missing values columns, if the missing value count is more than 40%.
- Dropping columns not necessary for analysis.
- Imputing the missing values using different techniques.
- Removing the signs from the values.
- Finding the outliers:loan\_amount,funded\_amount,annual\_inc.
- Creating bins for easy imputation.

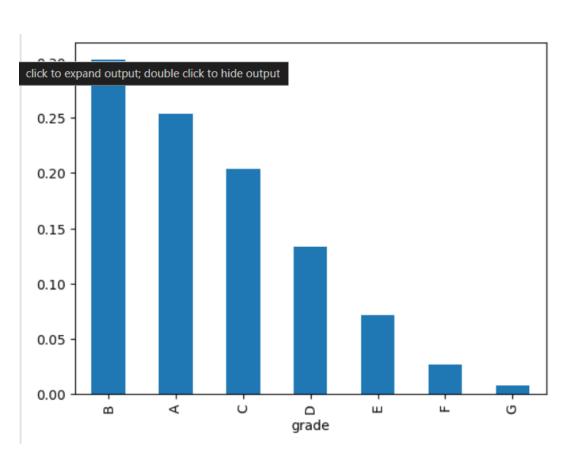
#### Univariate analysis

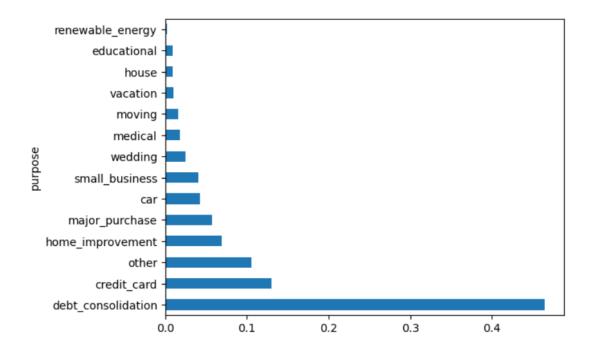


- Most of the employees having 10+ years of experiences
- Not verified accounts having the more portions, these is the one of the factors for defaulting.

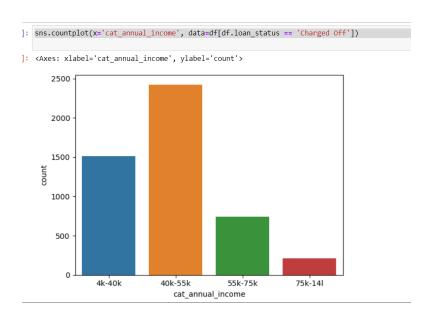


## Univariate analysis

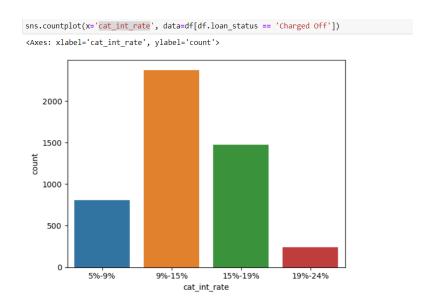




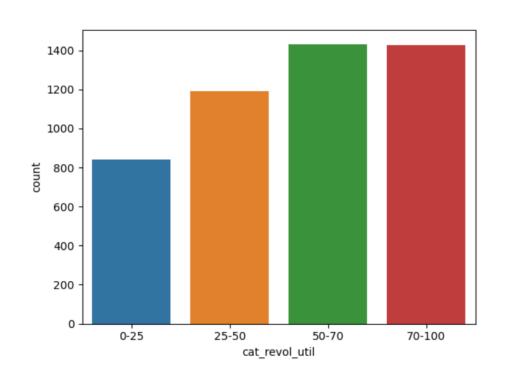
#### Bi-variate analysis

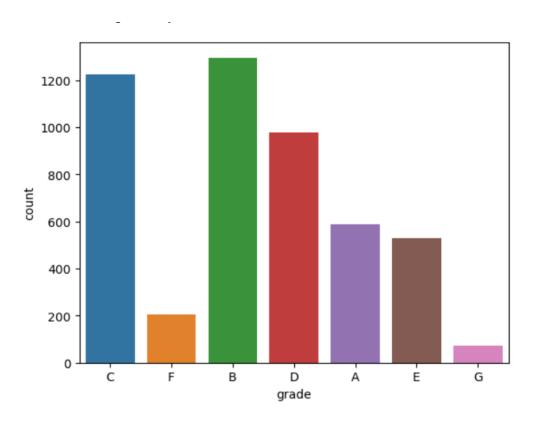


- Mostly charged off are having salary range of 40k-55k
- Charged off mostly having 9-15% of interest rate

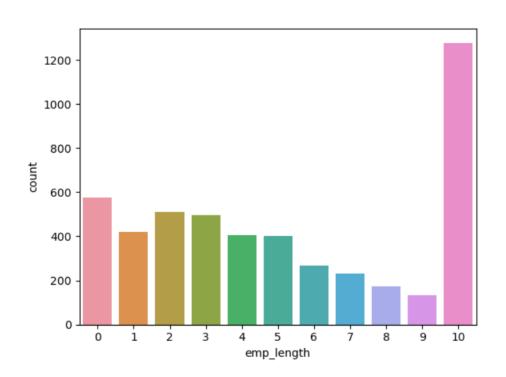


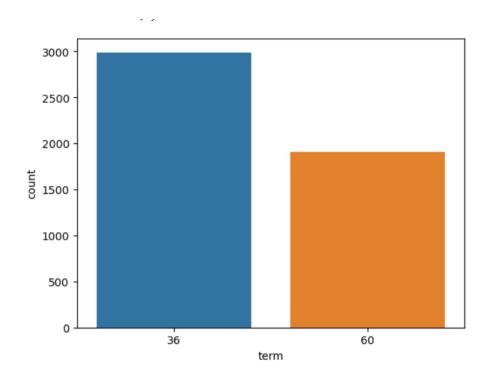
## Bi-variate analysis



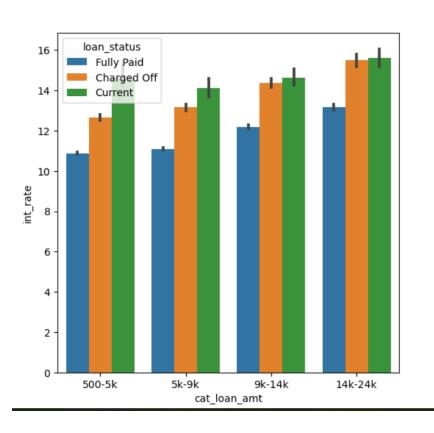


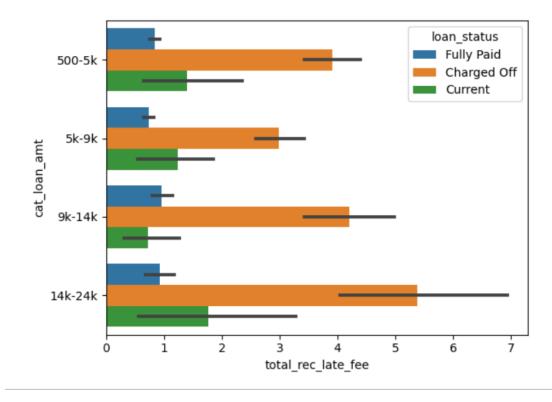
### Bi-variate analysis



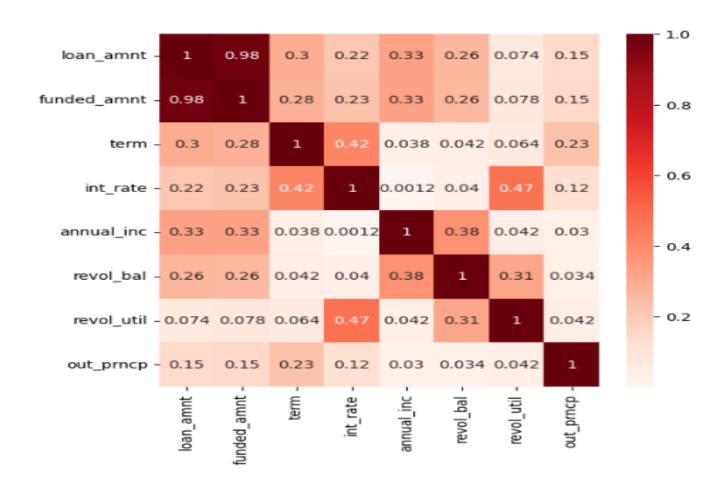


# Multi variate analysis

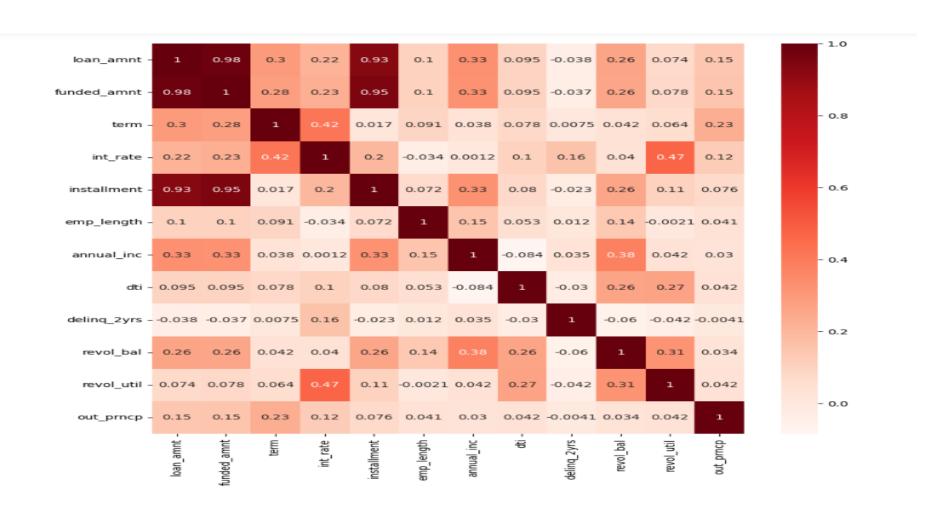




### Multi-variate analysis



### Multi-variate analysis



#### **Driver-Variables**

Percentage of not verified customers is more than verified .

Emp\_length is having more than 10+ years' experience

Salary between the 40k-55k

Revol\_util is range between 70-100

B grade coustomers

Loan amount between 14k-24k

