

LENDING CLUB LOAN CASE STUDY

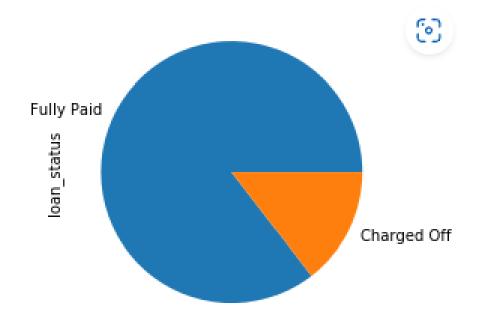
UNDERSTANDING LOAN ATTRIBUTES INFLUENCE THE TENDENCY OF DEFAULT

SOLUTION FOR

- Visual statement and the analysis approach of important variable
- Results of univariate, bivariate analysis etc. in business terms
- visualizations and summaries the most important Variables

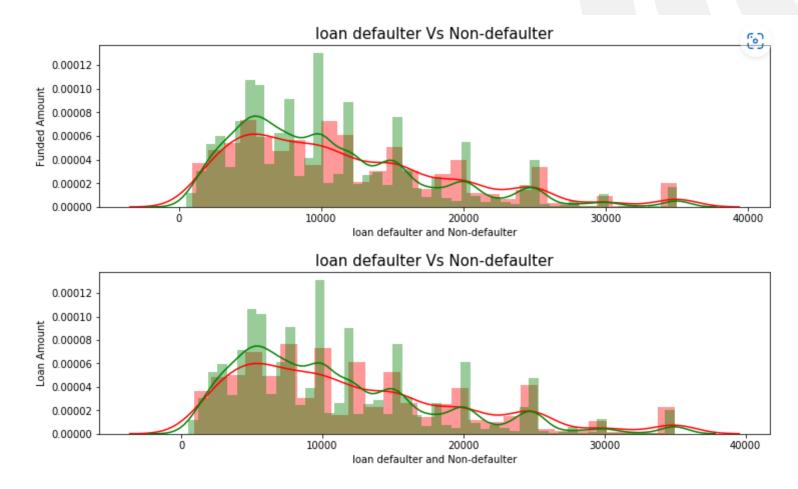


UNIVARIATE – LOAN STATUS



Pie chart for Fully paid and Charged off

BIVARIATE – FUNDED AMOUNT AND LOAN DEFAULTER

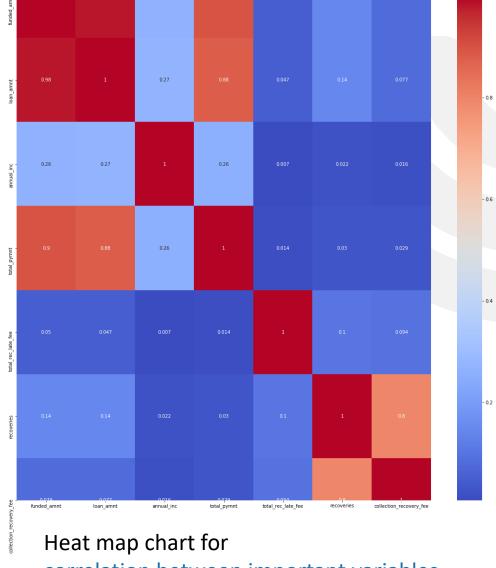


Histrogram chart for loan defaulter and Non-Defaulter

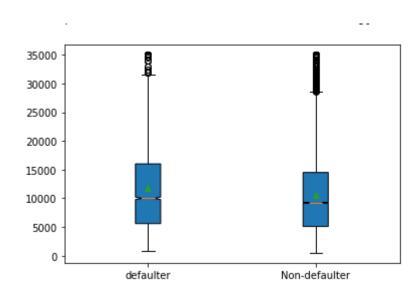
IMPORTANT VARIABLES TABLE

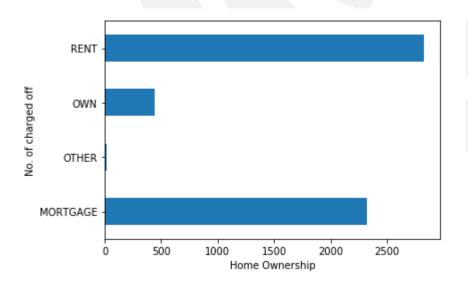
	loan_status	home_ownership	funded_amnt	loan_amnt	term	emp_length	annual_inc	verification_status	loan_status
0	Fully Paid	RENT	5000	5000	36 months	10+ years	24000.0	Verified	Fully Paid
1	Charged Off	RENT	2500	2500	60 months	< 1 year	30000.0	Source Verified	Charged Off
2	Fully Paid	RENT	2400	2400	36 months	10+ years	12252.0	Not Verified	Fully Paid
3	Fully Paid	RENT	10000	10000	36 months	10+ years	49200.0	Source Verified	Fully Paid
5	Fully Paid	RENT	5000	5000	36 months	3 years	36000.0	Source Verified	Fully Paid
39712	Fully Paid	MORTGAGE	2500	2500	36 months	4 years	110000.0	Not Verified	Fully Paid
39713	Fully Paid	RENT	8500	8500	36 months	3 years	18000.0	Not Verified	Fully Paid
39714	Fully Paid	MORTGAGE	5000	5000	36 months	< 1 year	100000.0	Not Verified	Fully Paid
39715	Fully Paid	MORTGAGE	5000	5000	36 months	< 1 year	200000.0	Not Verified	Fully Paid
39716	Fully Paid	OWN	7500	7500	36 months	< 1 year	22000.0	Not Verified	Fully Paid

38525 rows x 9 columns



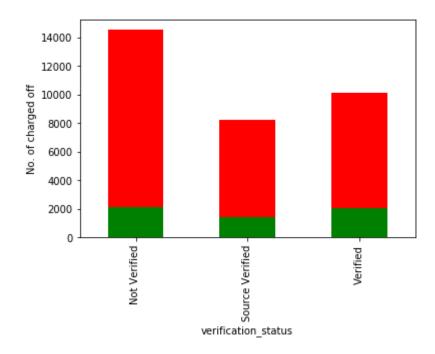
correlation between important variables



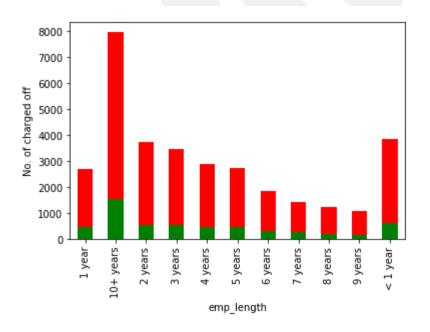


Box Plot for loan defaulter and Non-Defaulter vs loan amount

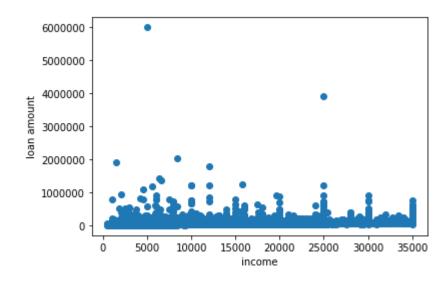
Barh chart for loan defaulter and Home Ownership

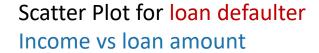


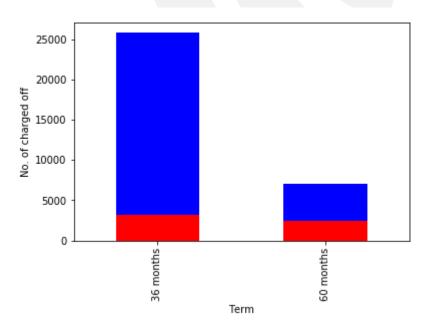
Bar chart Plot for loan defaulter and source Verified



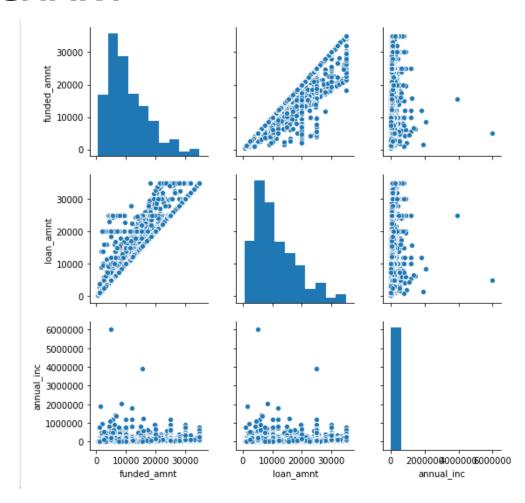
Bar chart for loan defaulter and Employee working years



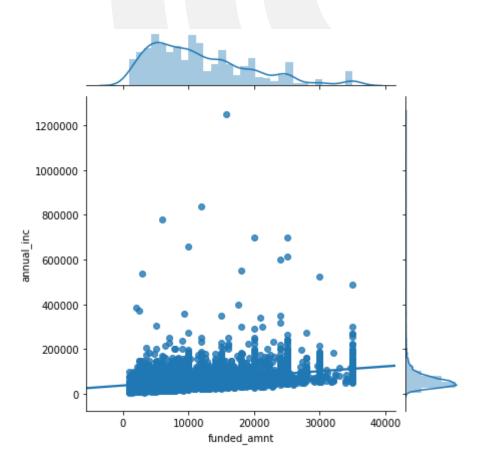




Bar chart for loan defaulter vs loan Term



Pair Plotfor Funded Amount, Loan Amount and Annual Income



Joint plot for loan defaulter Funded amount and Annual income

THANKYOU



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