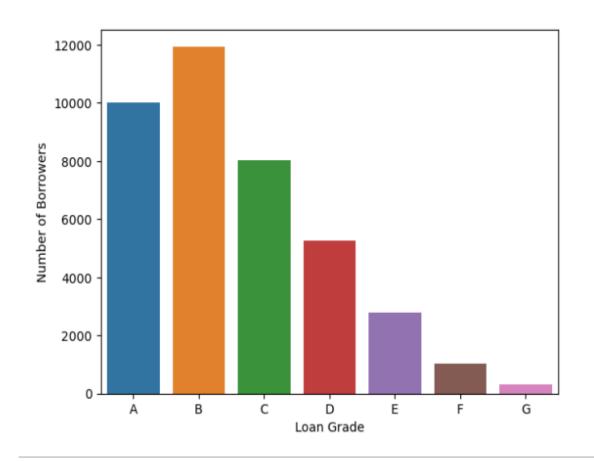
Lending Club Case Study

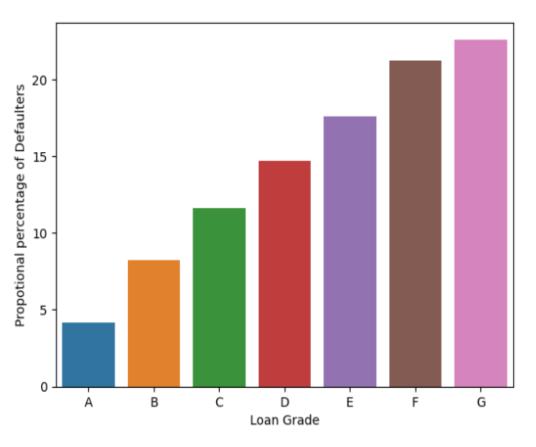
EDA

By Krishna Chaitanya Bhavanibhatla

Analysis

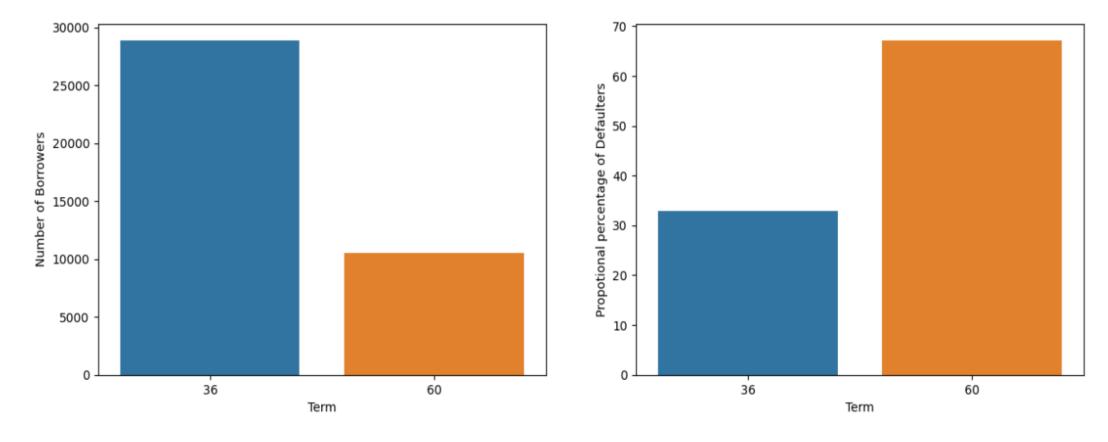
• Grade





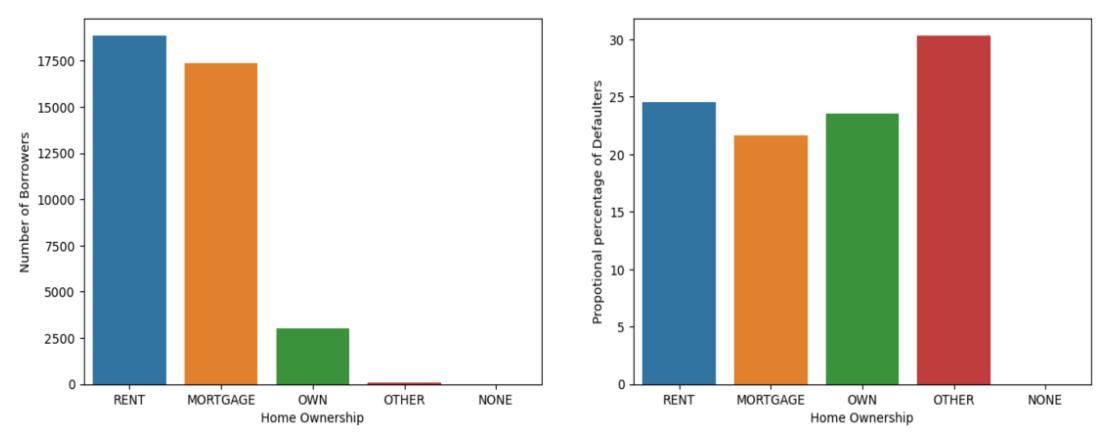
- Loan borrowers decrease from A to G grades.
- B grade employees seems to have taken more loans.
- Default rate is increasing from A to G grades.
- G grade employees have defaulted the most.

• Term



- Term of 36 is the most chosen by borrowers.
- Term of 60 have the highest defaulters.

Home ownership



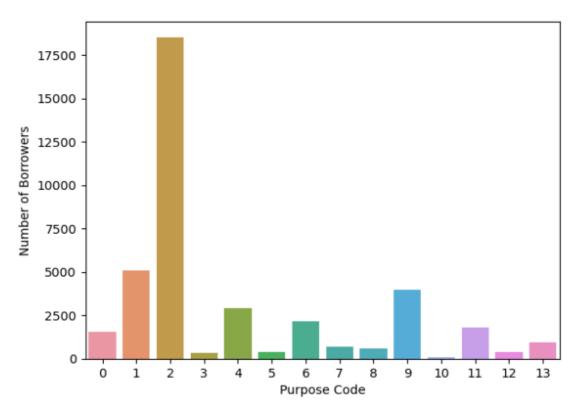
- Employees who rent or have a mortgage have taken more loans.
- Employees who have not clearly mentioned home ownership and have answered as 'OTHER' have the highest default rate

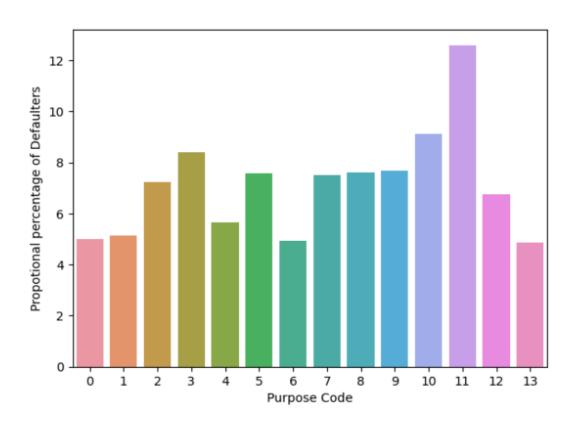
Purpose of loan

Encoded values of purpose

purpose	
	purpose_code
CAR	0
CREDIT_CARD	1
DEBT_CONSOLIDATION	2
EDUCATIONAL	3
HOME_IMPROVEMENT	4
HOUSE	5
MAJOR_PURCHASE	6
MEDICAL	7
MOVING	8
OTHER	9
RENEWABLE_ENERGY	10
SMALL_BUSINESS	11
VACATION	12
WEDDING	13

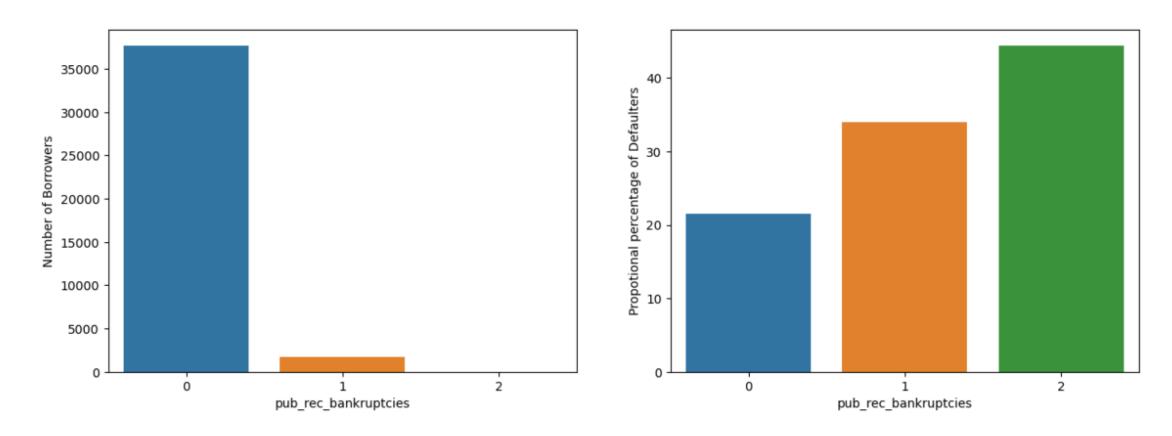
Purpose of loan





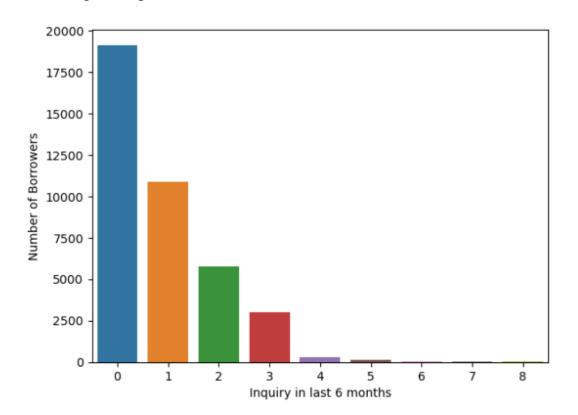
• Default rate is highest in the category of 'Small Business' followed by Renewable energy, Educational

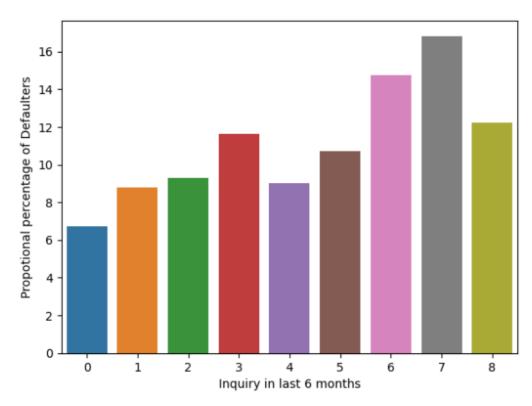
Number of public record bankruptcies



• Higher is the pub_rec_bankruptcies, higher is the chance to default

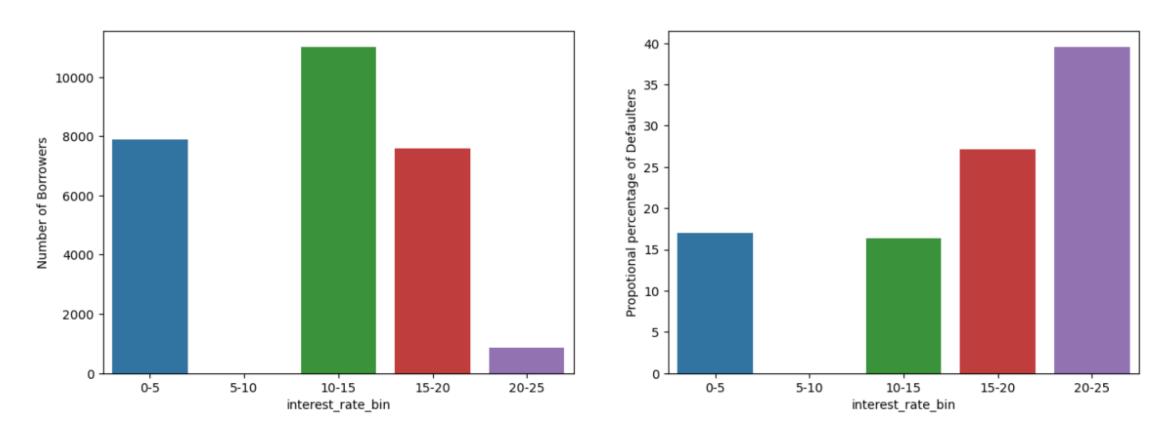
Inquiry in last 6 months





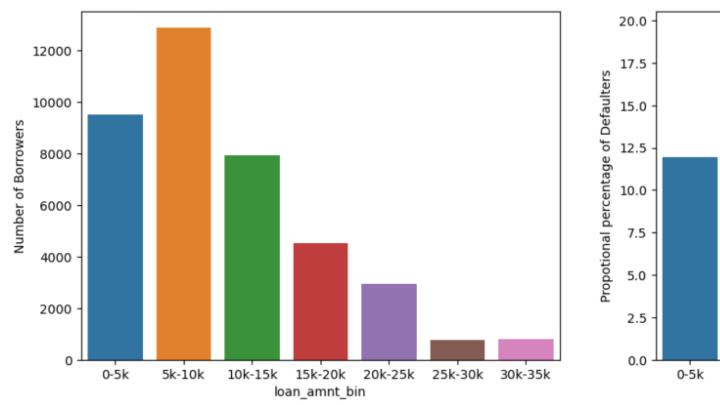
• Employees who paid the loan inquired less.

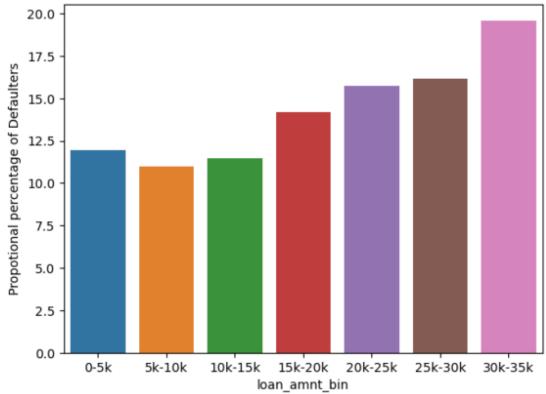
Interest Rate



• Defaults are higher for higher interest rates

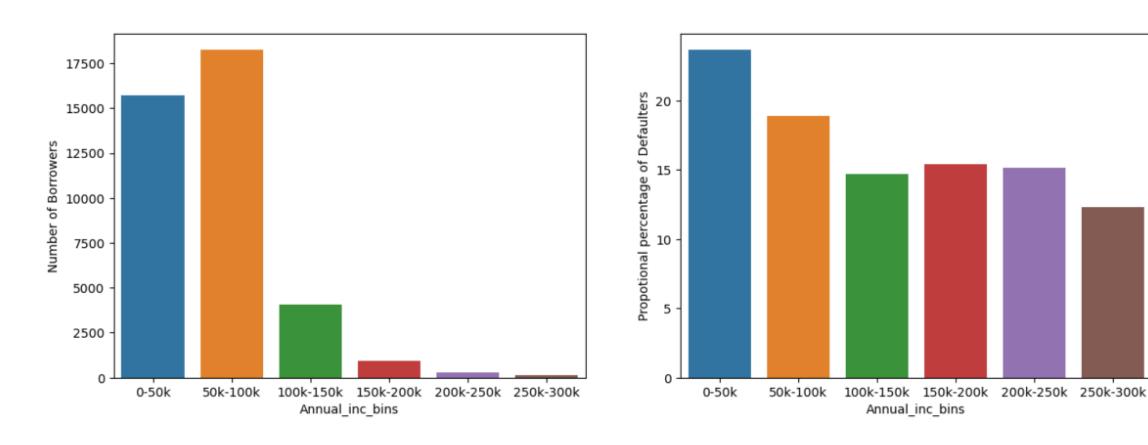
Loan amount





• As loan amount increses there is increased tendency to default

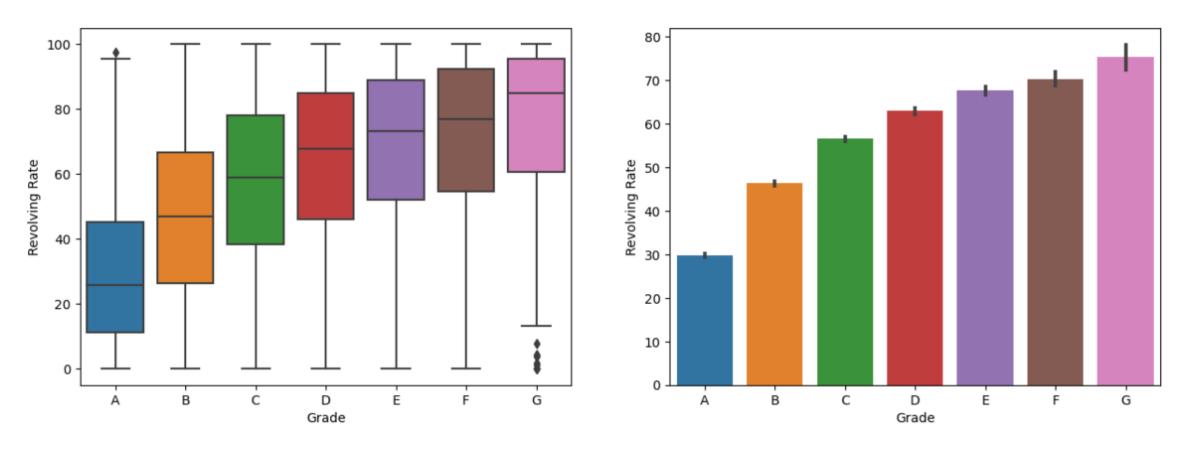
Annual income



• As annual income increases there is descrease tendency to default

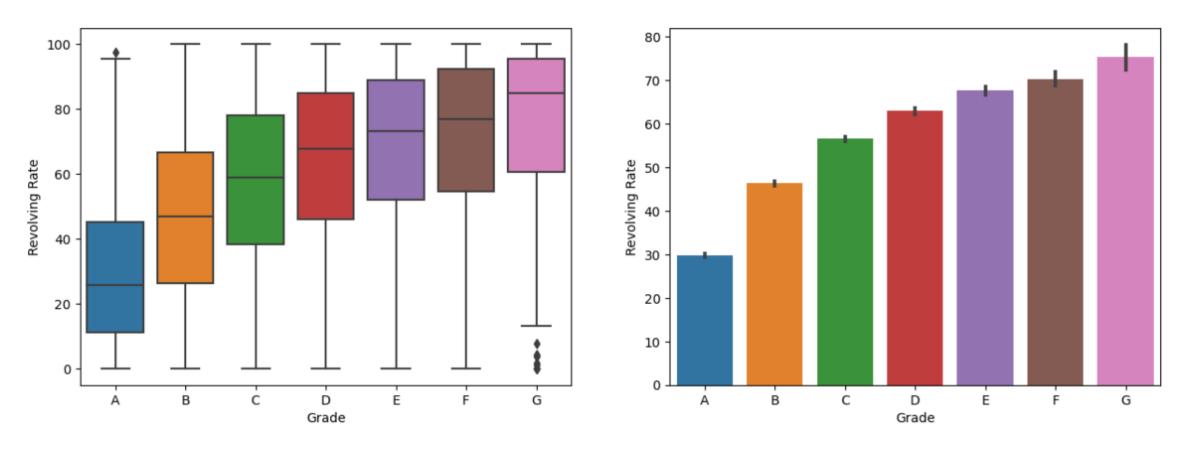
Annual_inc_bins

Grade & Revolving line utilization rate



• Revol util rate is increasing from grades A-G.

Grade & Revolving line utilization rate



• Revol util rate is increasing from grades A-G.