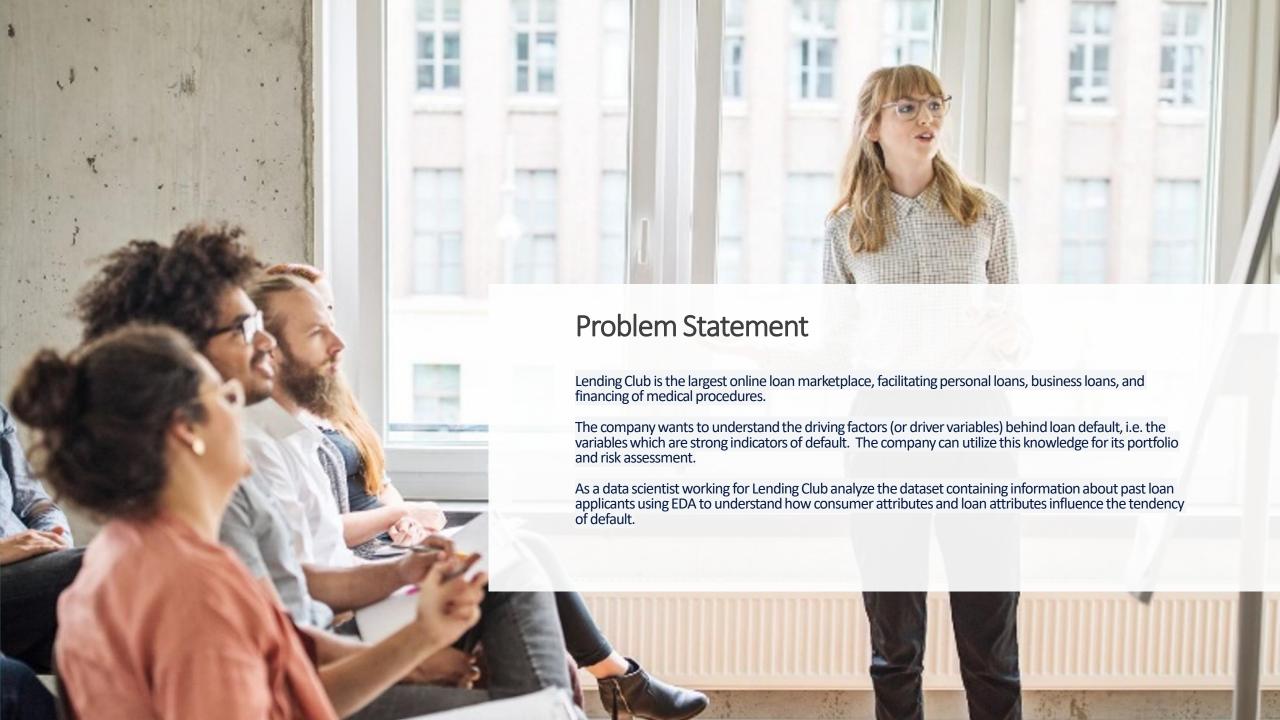


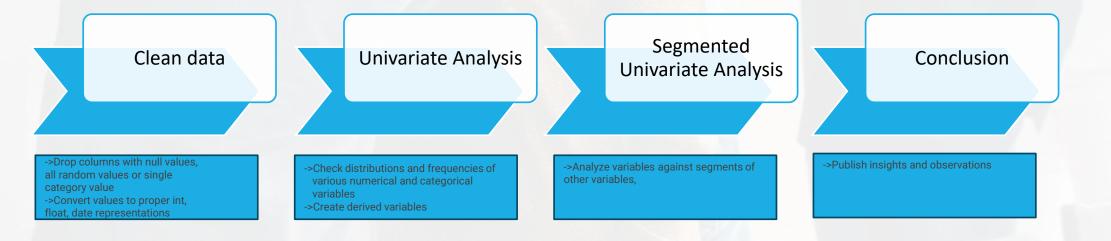
### Agenda

- Problem Statement
- Analysis Approach
- Data Preparation
- ED Analysis
- Conclusion

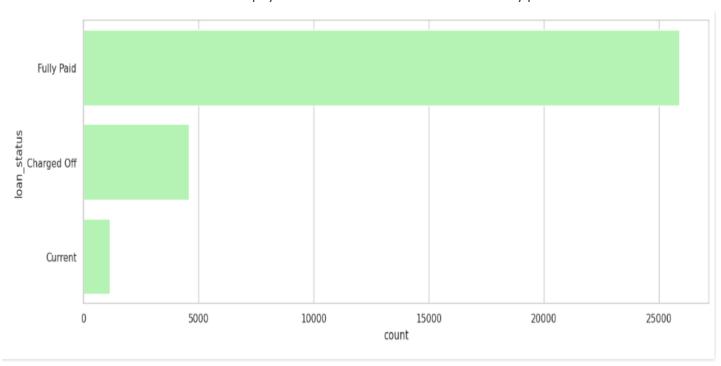


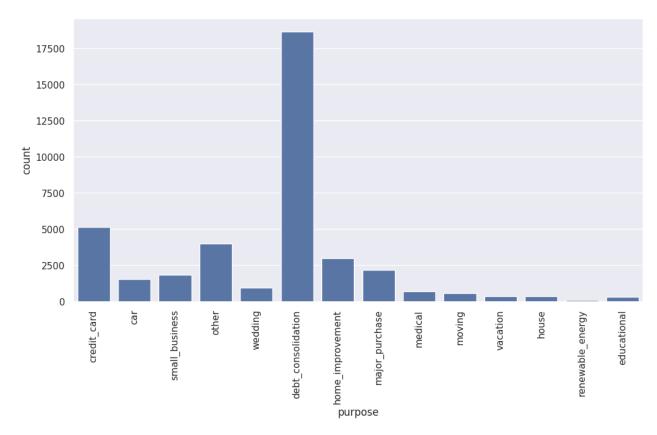


## Analysis Approach

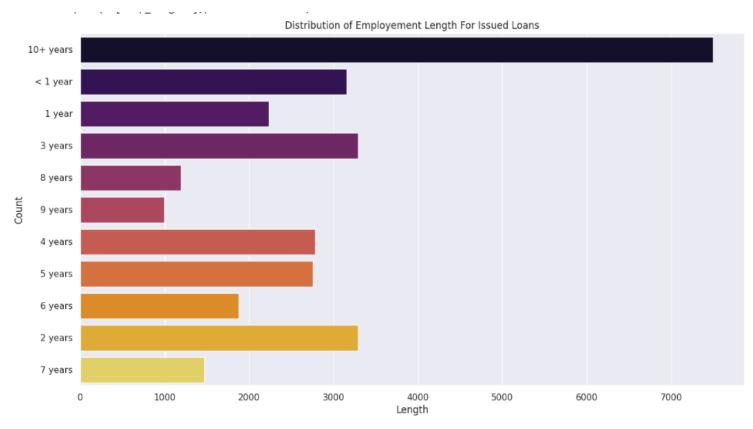


# Most of the borrower are able to pay their Loan on time i.e. 85.4% are Fully paid and 14.6 % are defaulter

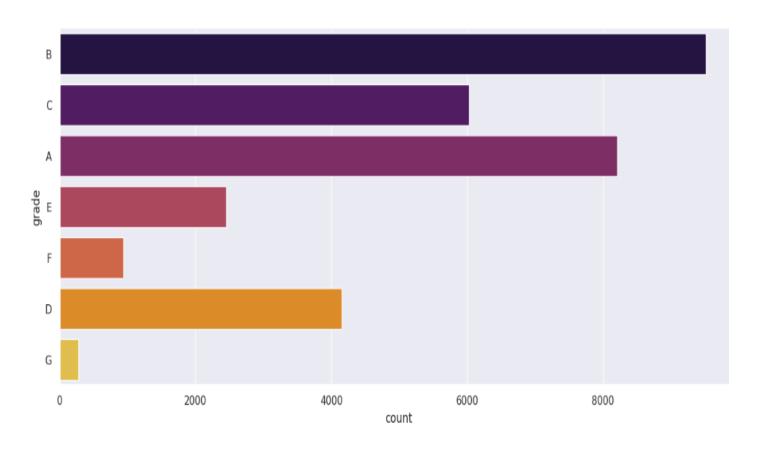




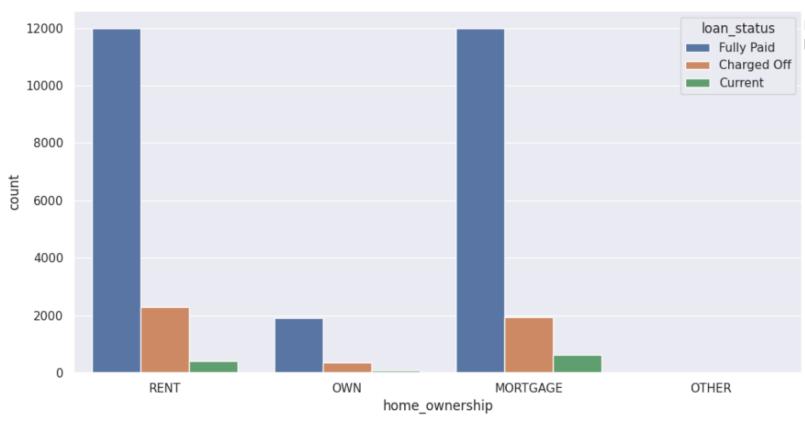
Most loans were taken by customers for debt\_consolidation and credit card



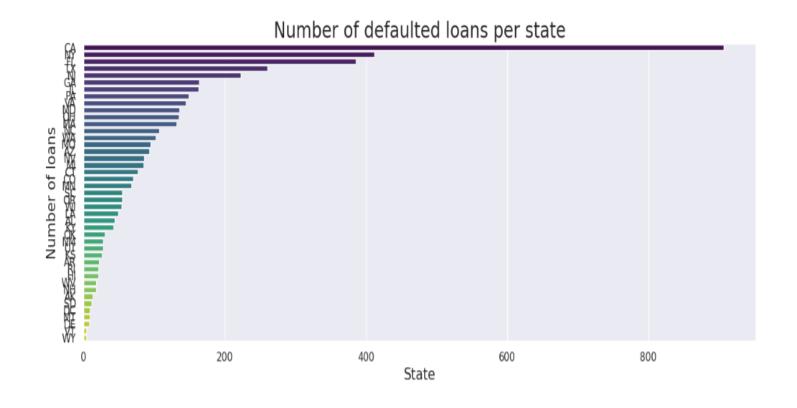
More Loans are taken by employee with more than 10 years of experience



- # Grade A,B,C seems to be applied for most loans compared to other grades
- # With Grade F and G being the lowest borrower

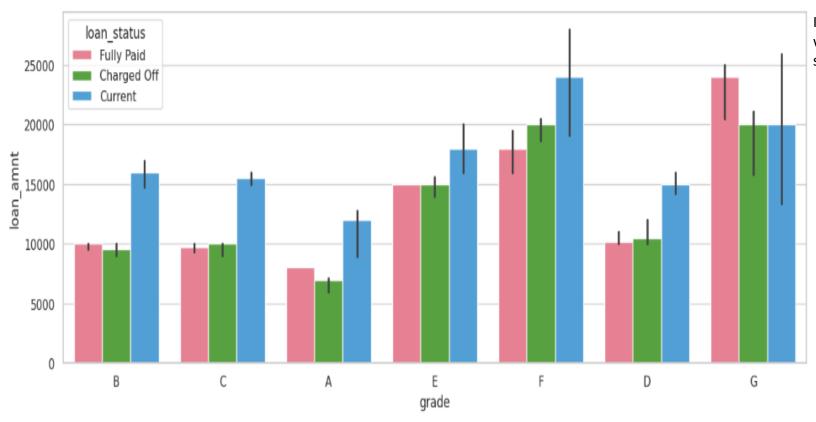


People who has Mortgaged or rented has the highest amount of Loan



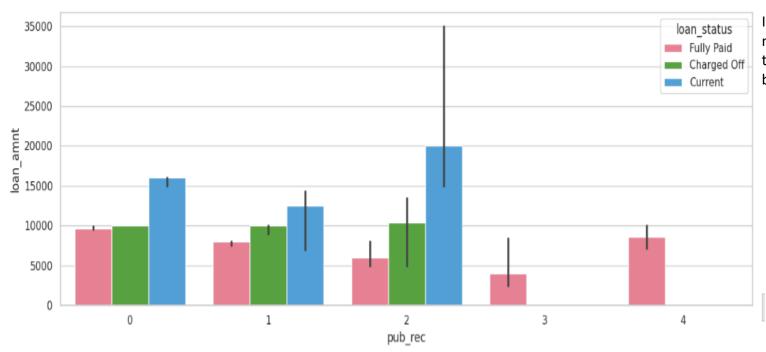
Shows top cities who have taken the highest Loans I.e. CA,NY and FL

#### Analysis – Default by Grades



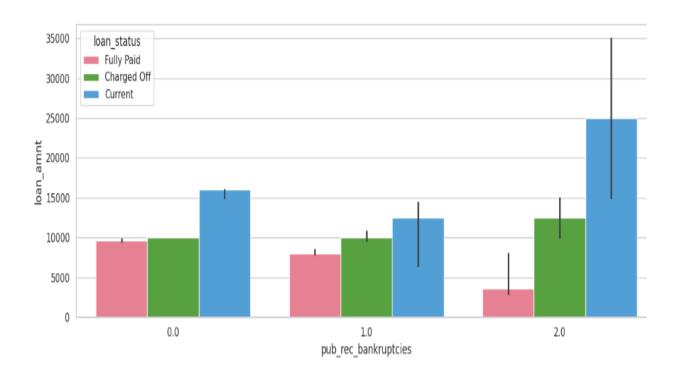
It shows that even if grades 'F' & 'G' were lowest loan borrowers, they were still the highest defaulters.

#### Analysis – Default by Public Records



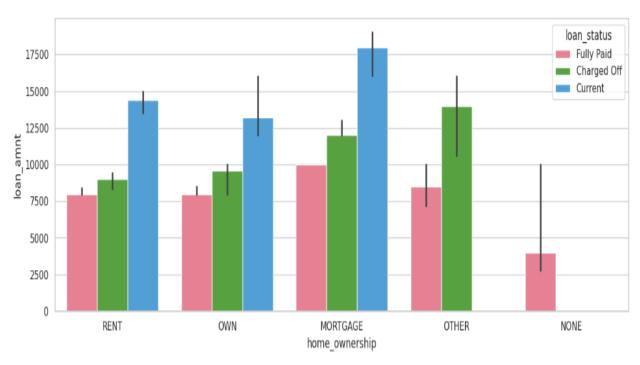
It clearly shows that if a person has a number of derogatory public records, then there is high possibility of him being defaulted.

#### Analysis – Default by Bankruptcies



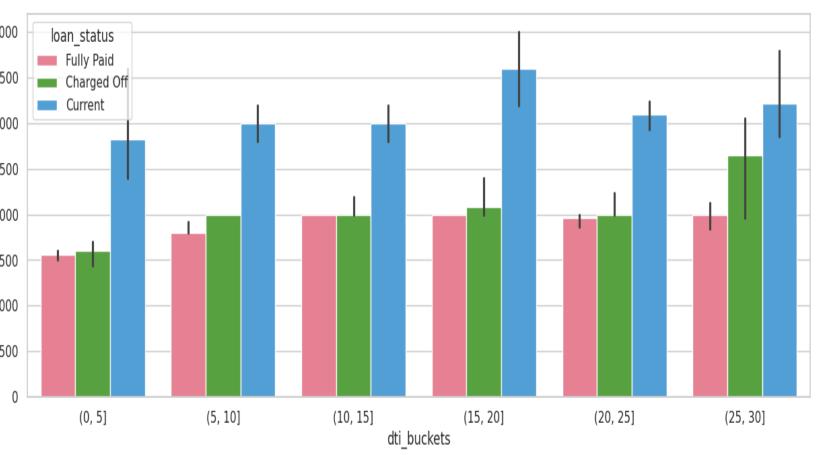
Customers who have higher records of bankruptcies are bound to be charged-off more.

#### Analysis – Default by home ownership



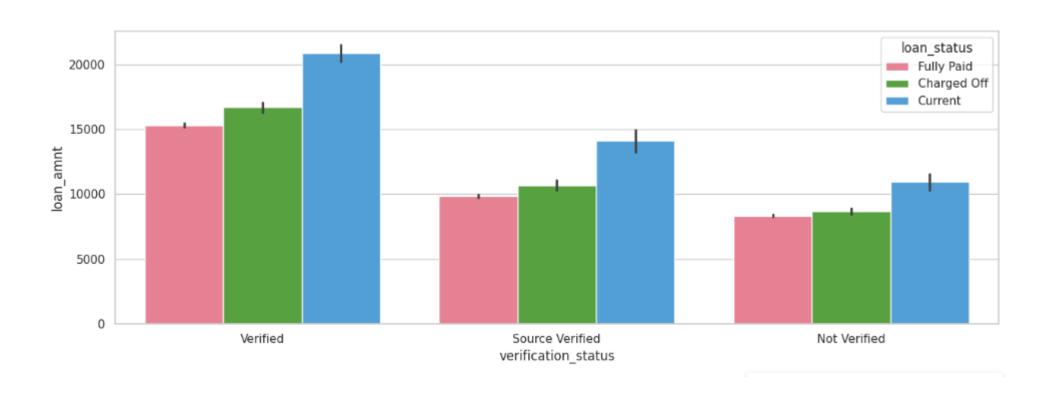
Customers who don't seem to have a fixed home ownership are likely to default more. 'Other' is having high Defaulter

### Analysis – Default by DTI

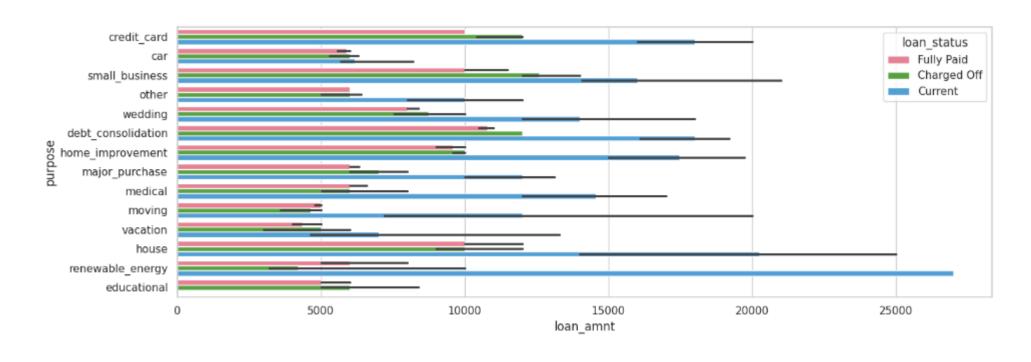


As the dti ratio rises above 20, the loans become risky

#### Analysis – Defaulter by Verification status



#### Analysis – Defaulter by Purpose



#Most defaulters were people who had the purpose of small business, renewable energy and debt consolidation for their loans

## Takeaways

- Reduce number of approvals where purpose is small business and debt -.consolidation
- Start charging higher interest rates for loans with DTI greater than 20.
- Stop approving loans to people with prior bad record. Or at least stop approving high-value loans.
- Customers who have higher records of bankruptcies are bound to be charged-off more.
- Customers who don't seem to have a fixed home ownership are likely to default more.
- People being a defaulter is more when they have a less employment experience.
- The top cities who have taken the highest number of loans are also the ones who have higher number of defaulters.



# Thank you

Rohinee Kanta Mishra & Arun Kumar