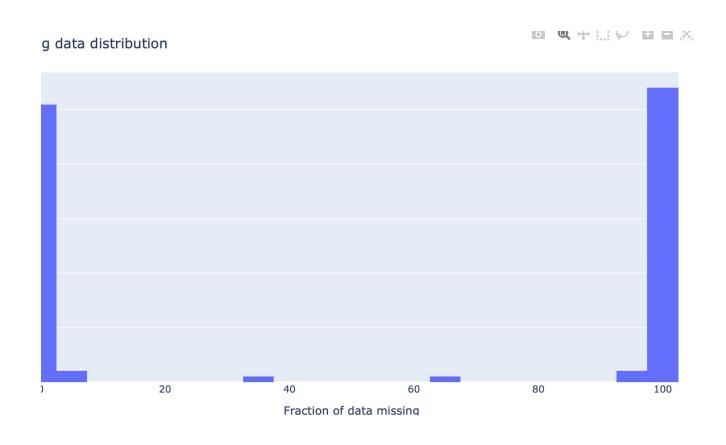
# Lending Case Study

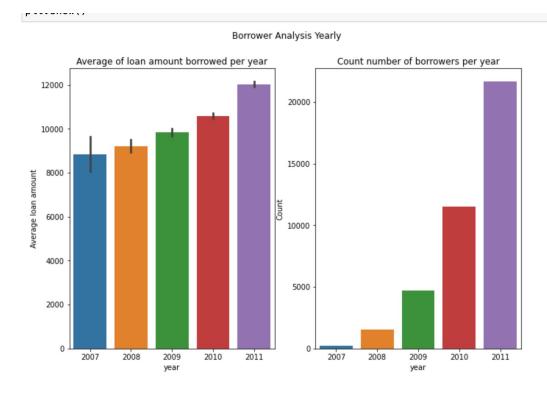
Poornima T A, Jagadeesh Manepalli

# Data Cleanup



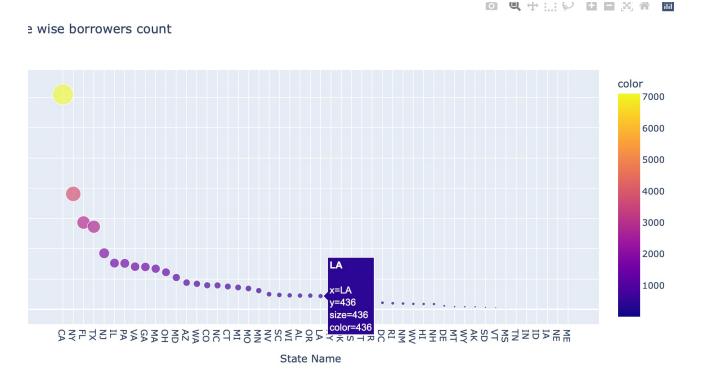
- It was observed that 50+ features had complete null and nan values
- The feaure which had more than 30% nan values were dropped

# Yearly Analysis



- Average loan amount has increased every year
- Number of borrowers have increased drastically in 2010 could be due to the great recession in year 2010

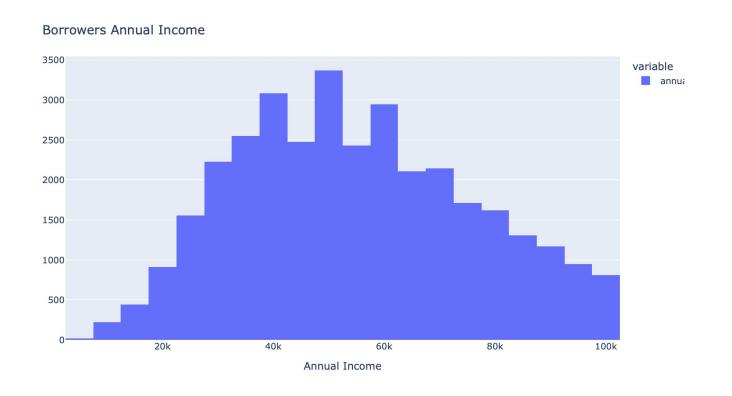
### Area-wise analysis



 Higher number of borrowers from metro cities like California(CA), New York(NA), Florida(FL), Texas(TX) etc.

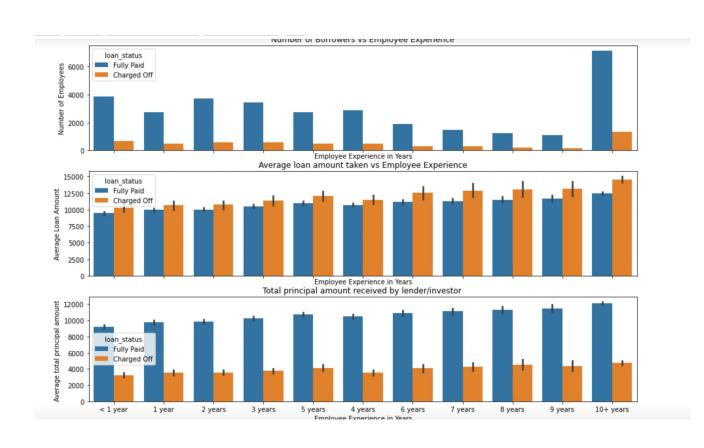
 This may be due to higher population count in metro cities.

#### Annual Income



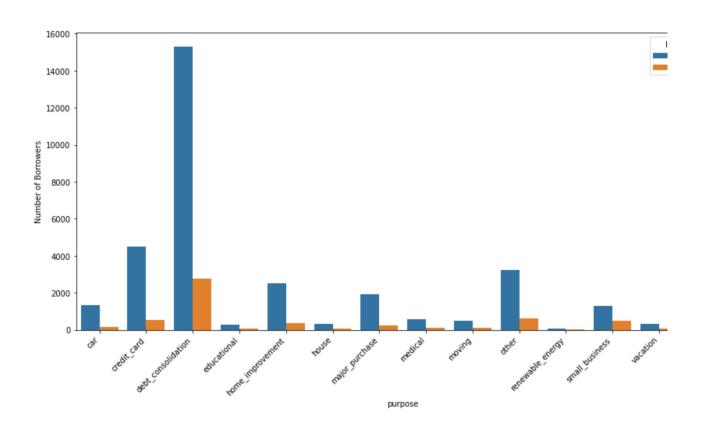
• The annual income of most borrowers is \$54,844

# Employee experience, Loan Status, Principal Amount



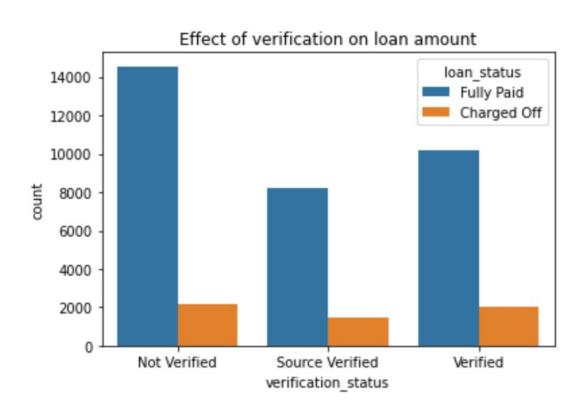
- People with lot of experience or very low experience seem to default more
- Employees with mid-level experience default lesser
- Lenders collect almost double the principal amount from the borrower, hence investors have a high profit over the years.

# Loan Purpose vs Default



- People who borrow money for
  - debt consolidation
  - credit card repayment
  - Small Businesses
- are high defaulters

#### Verification Status



Non verified borrowers default more

#### Conclusion

- The main feature to be considered are
  - Loan Amount
  - Loan Purpose
  - Employee Experience
  - Term
  - Loan Status

- People with higher experience default
- People in metros have more borrowers
- Interest rate for defaulters is more than that for fully paid
- Defaulters take loan for Small Businesses, Credit Card Payment and Debt Consolidation