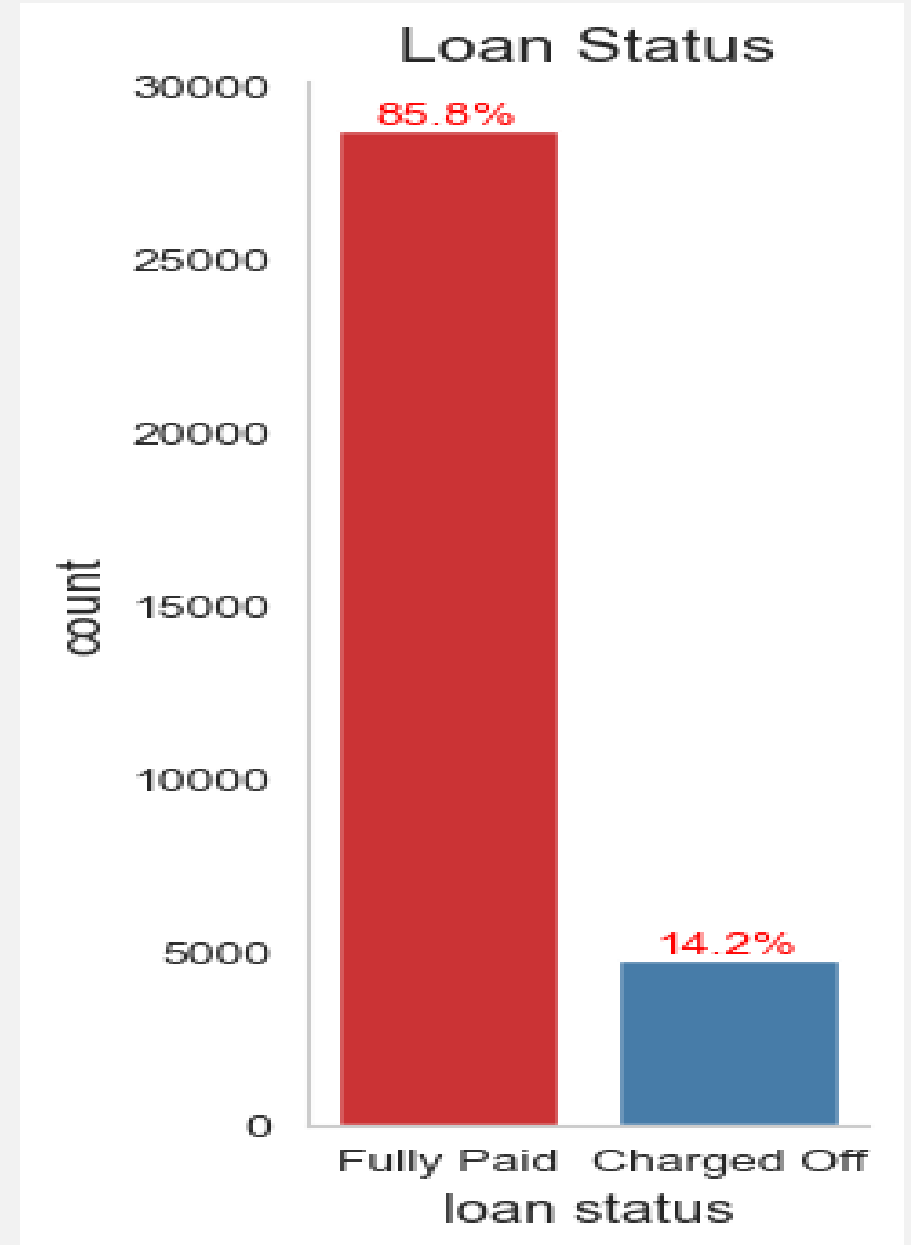


EDA- LOAN DATASET

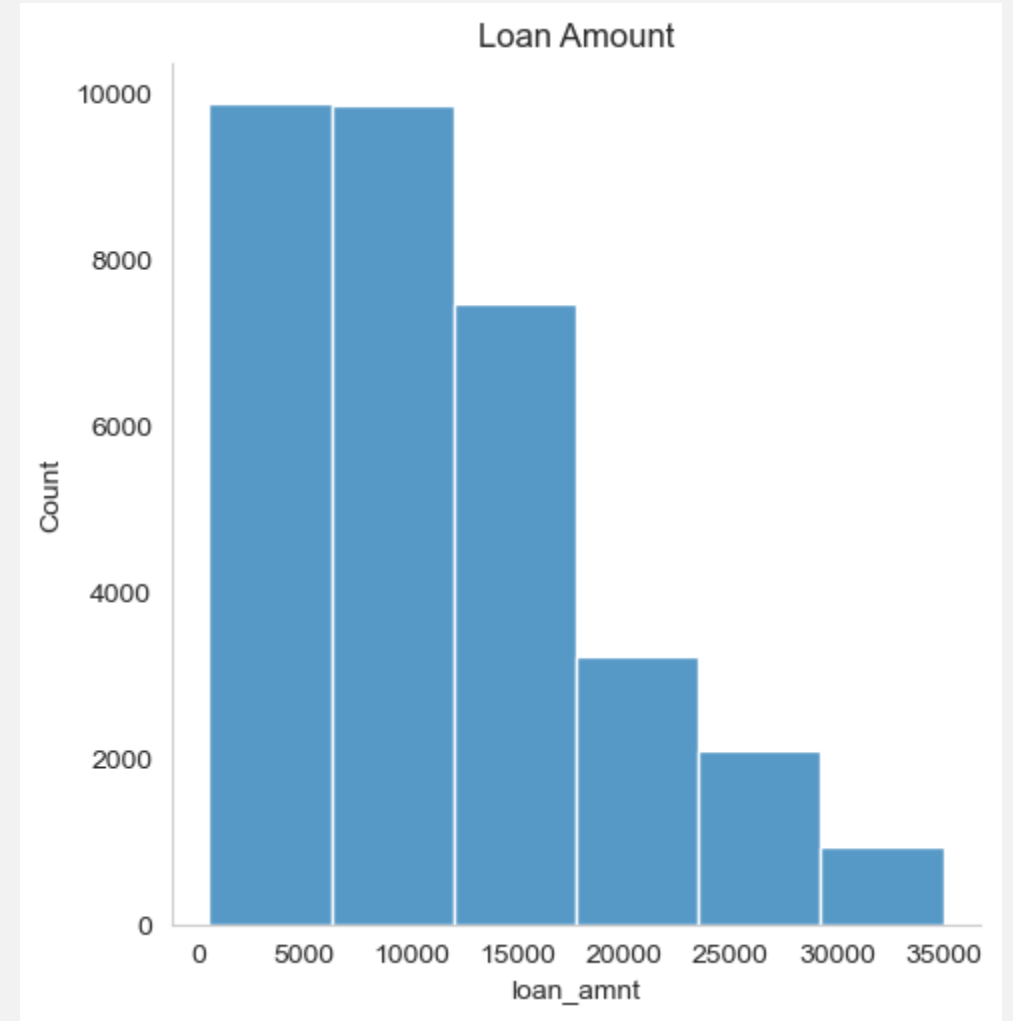
DISTRIBUTION OF LOAN STATUS

The graph shows that in the data provided there are around 14.2% applicants who have defaulted / charged off



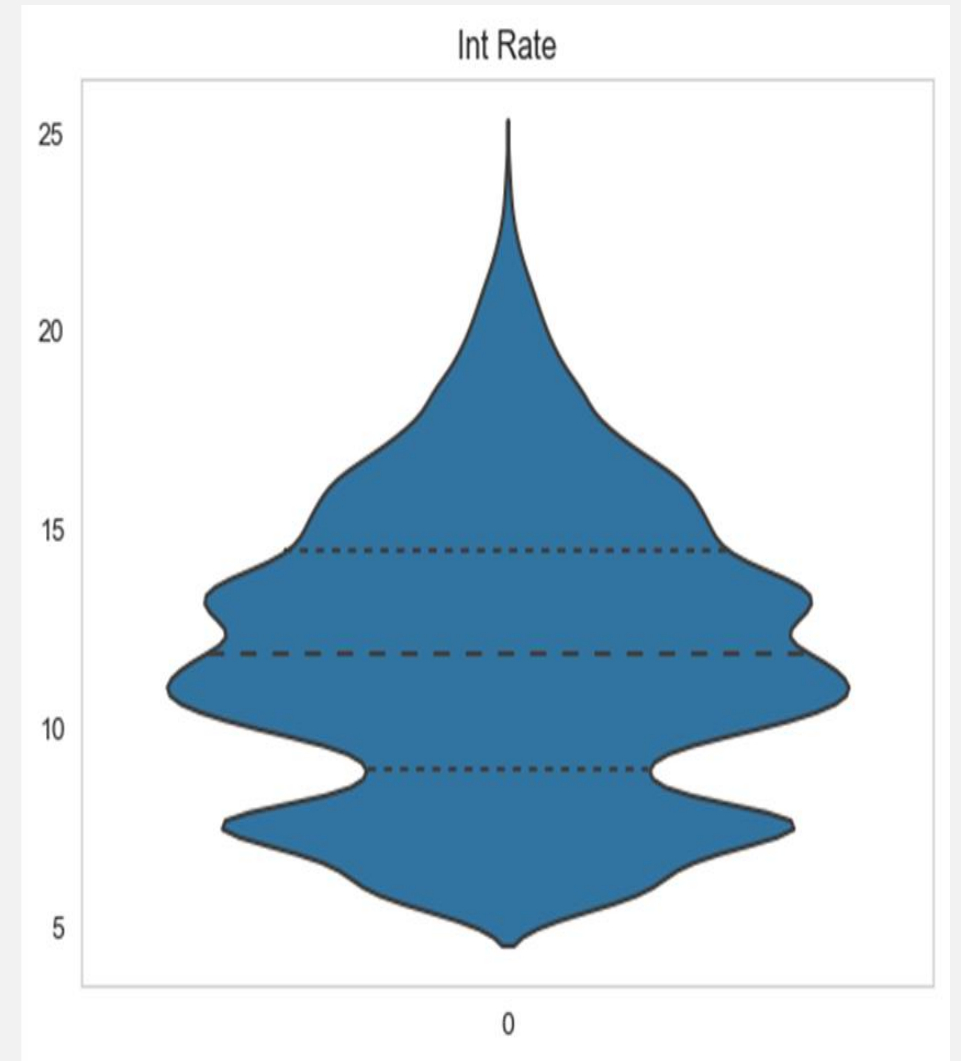
DISTRIBUTION OF LOAN AMOUNT

The graph shows that the loan amount is majority spread around say 6000 to 18000 appx



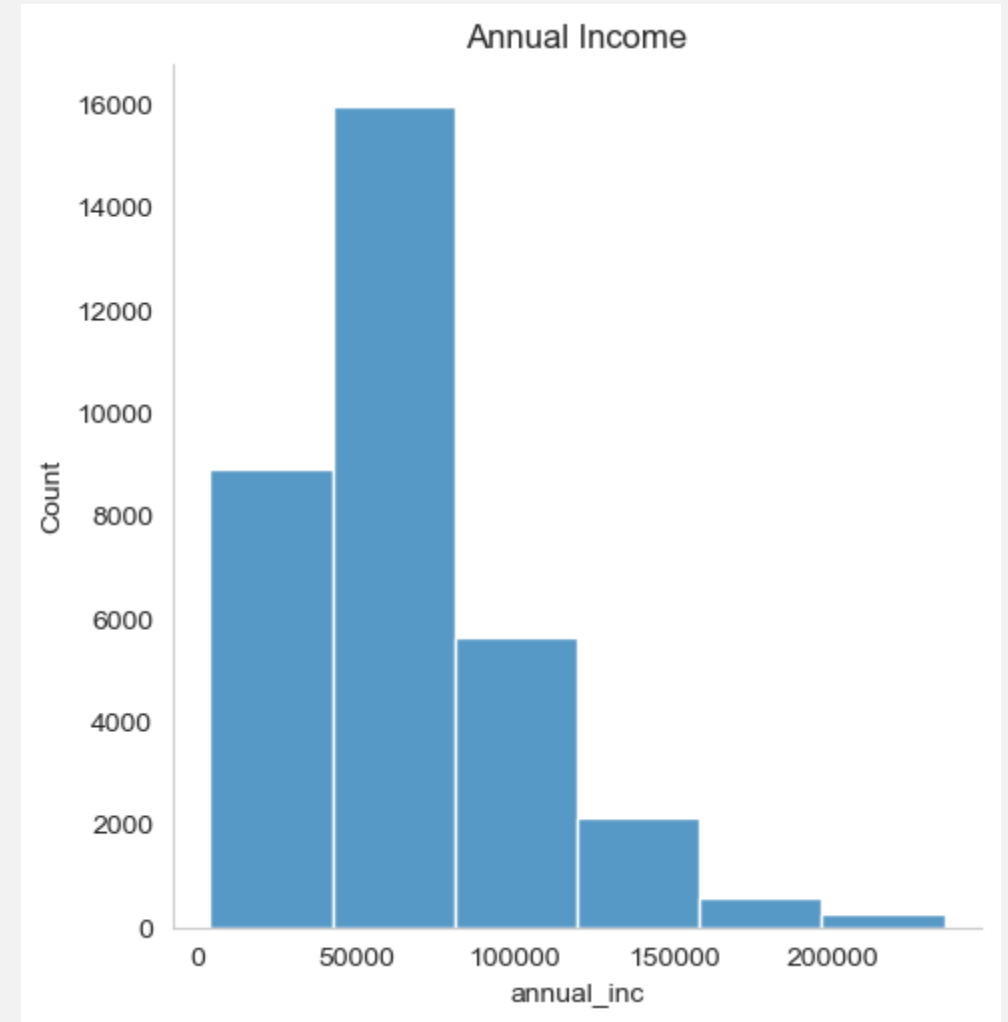
DISTRIBUTION OF INTEREST RATE

The graphs shows that the interest rate is spread majority between 8% and 14% approx



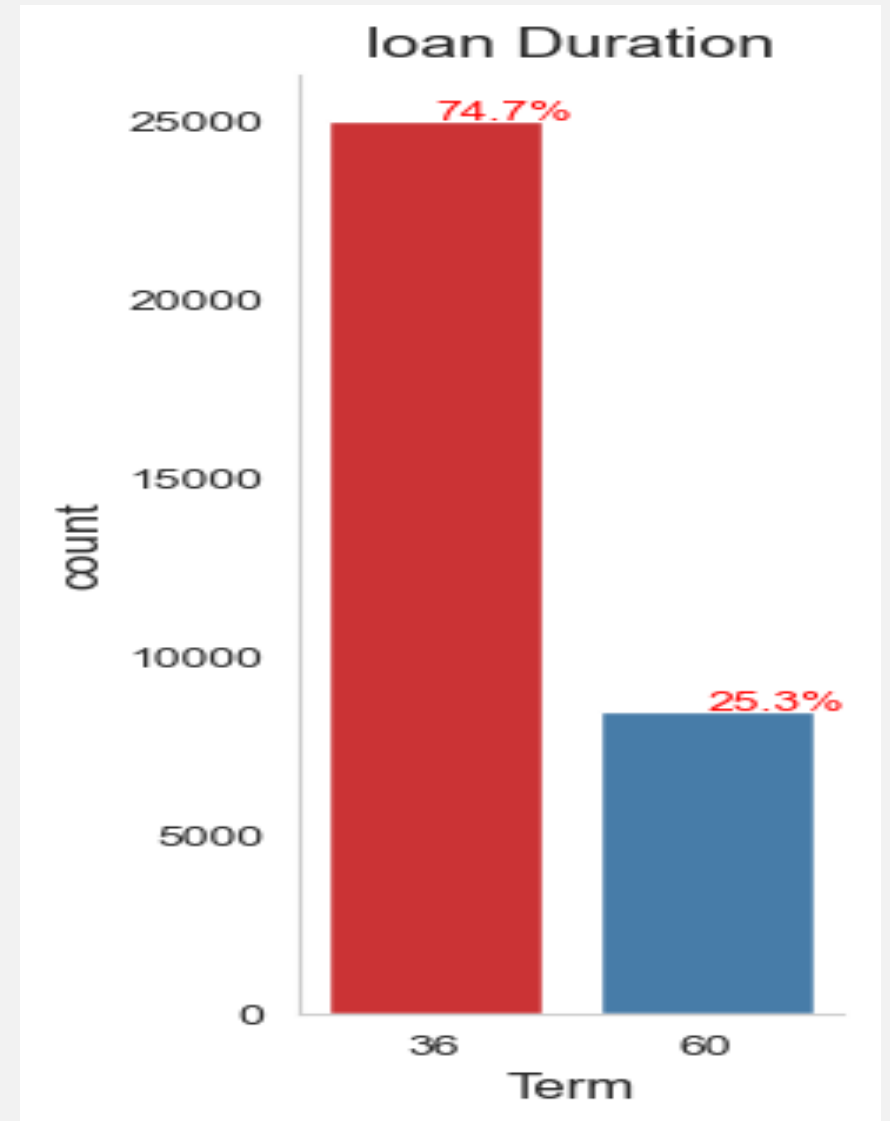
DISTRIBUTION OF ANNUAL INCOME

As per the graph majority of the applicants have an annual income ranging approx. between 40000 USD to 90000 USD



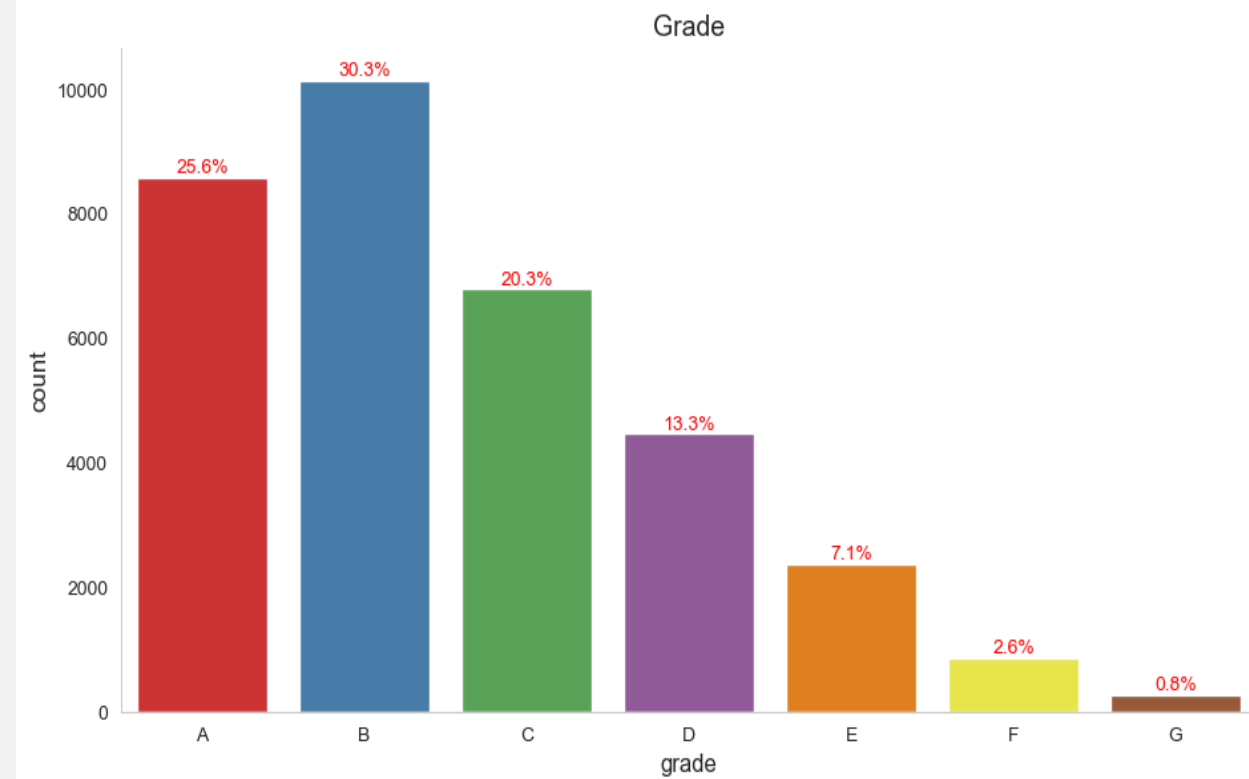
ANALYSE THE LOAN DURATION

As the majority of the applicants have taken duration as 36 months (74.7%)

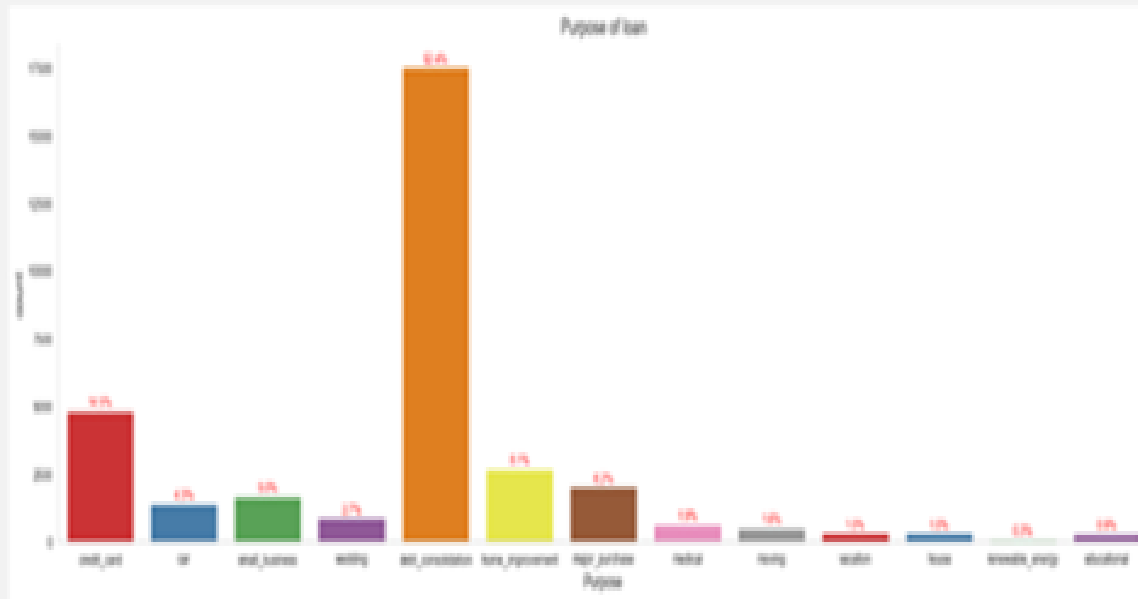


LOAN APPLICANTS IS SPREAD ACROSS THE GRADE

The graphs shows that
most of the applicants fall
under the grade B (30.0%)



PURPOSE AND ITS SPREAD FOR WHICH THE APPLICANTS HAVE APPLIED FOR LOAN



The following are the purpose for which more than 5% applicants have been taken loan

debt_consolidation - 52.4%

credit_card - 14.5%

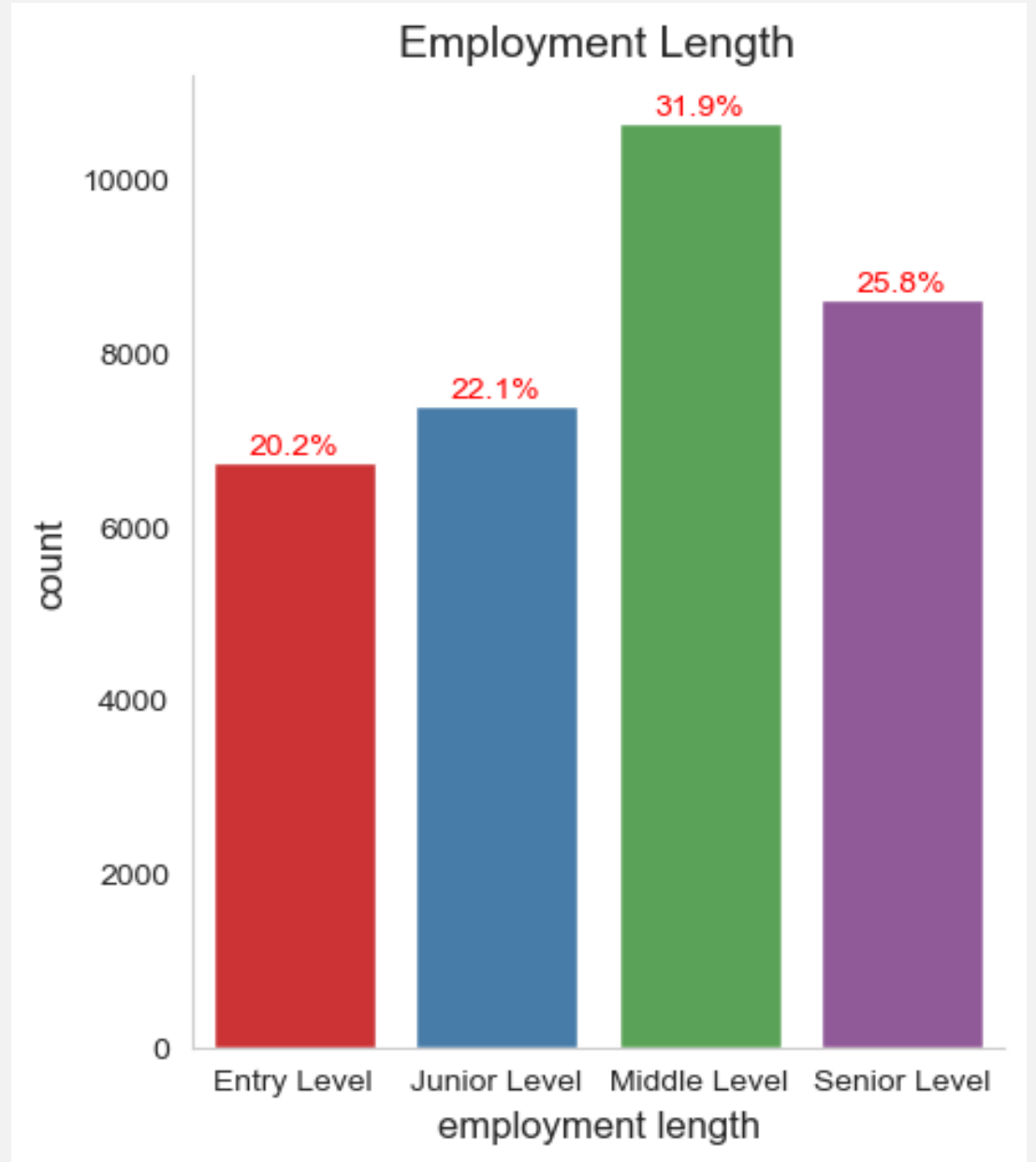
home_improvement-8.1%

major_purchase-8.2%

small business-8.9%

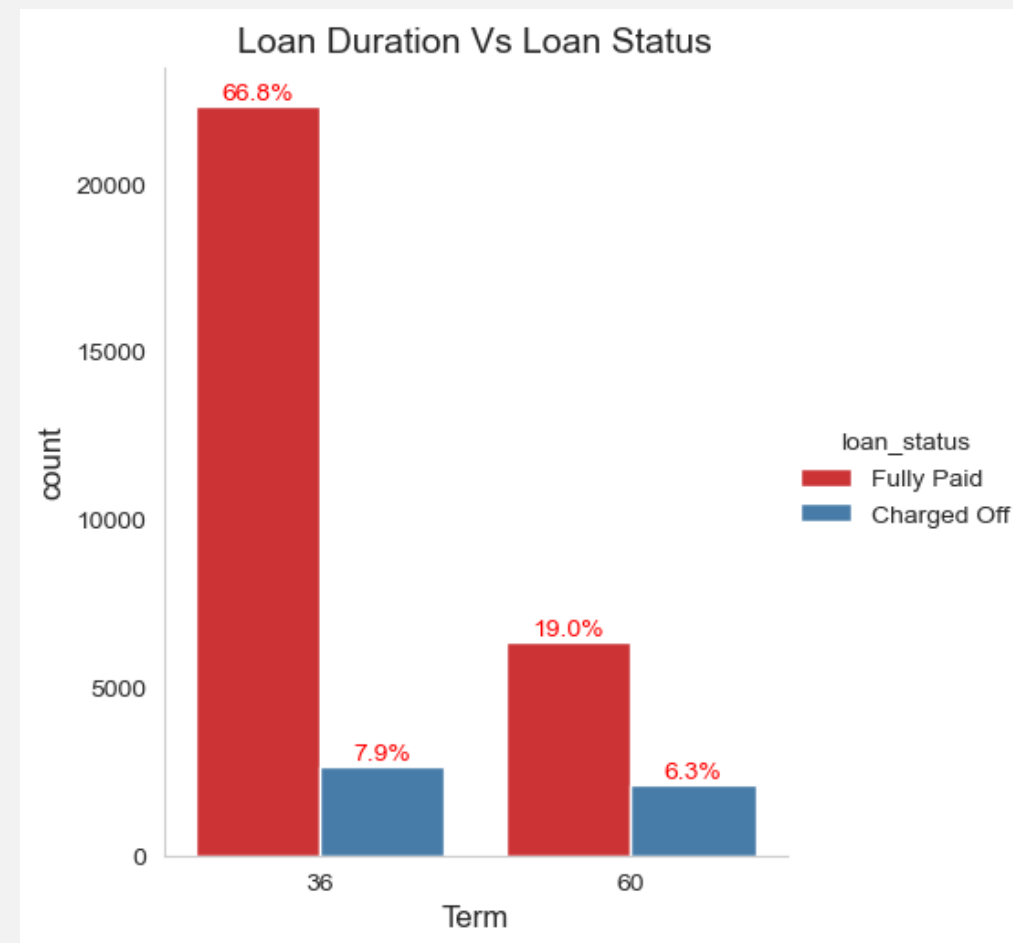
EMPLOYMENT LENGTH

THERE ARE MORE NUMBER OF
LOAN APPLICANTS BELOGING IN
THE MIDDLE LEVEL CATEGORY
(31.9%) IE BETWEEN 4 TO 8
YEARS



LOAN DURATION VS LOAN STATUS

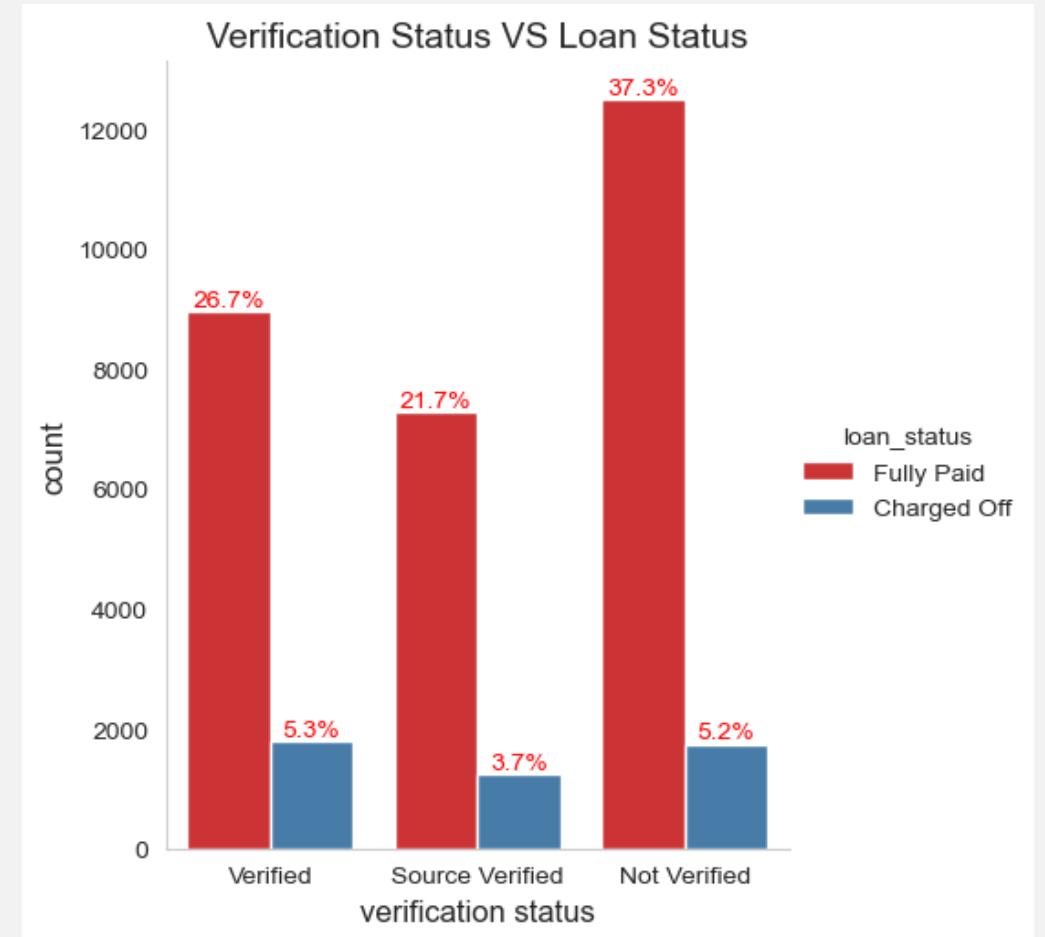
The graphs shows that Fully paid are high i.e 66.8% and there are less which are charged off



VERIFICATION STATUS VS LOAN STATUS

Interest Rate Vs Loan Status

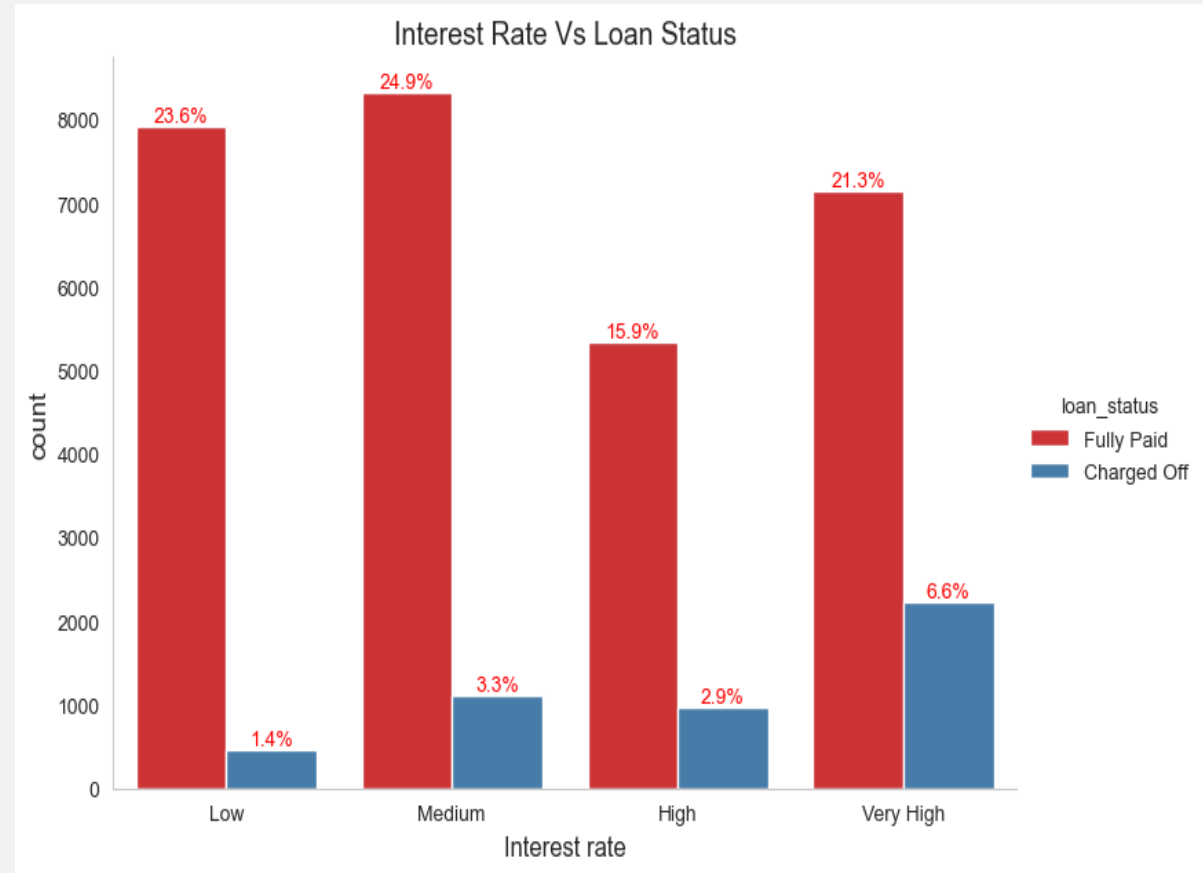
Per the graph above, applicants whose income has been verified seem to default more, hence we can ignore this cause of default



INTEREST RATE VS LOAN STATUS

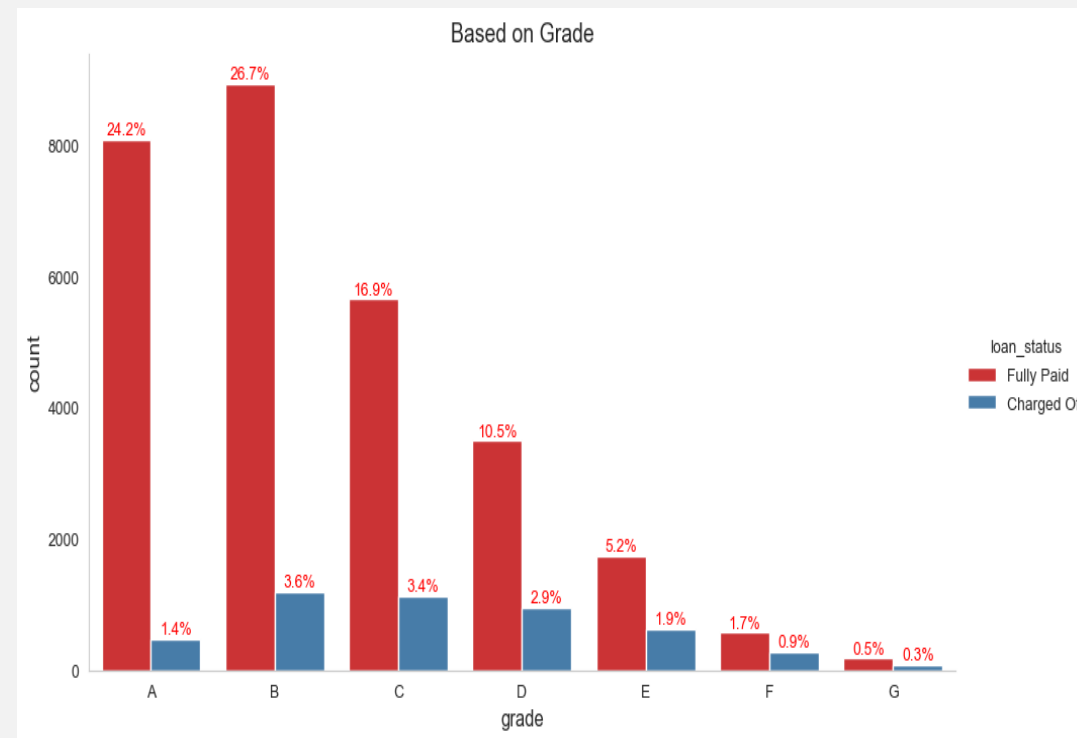
As per graph , the Interest rate which loan status are fully paid is in lie under Medium has 24.9 %

And charged off has very high about 6.6 %



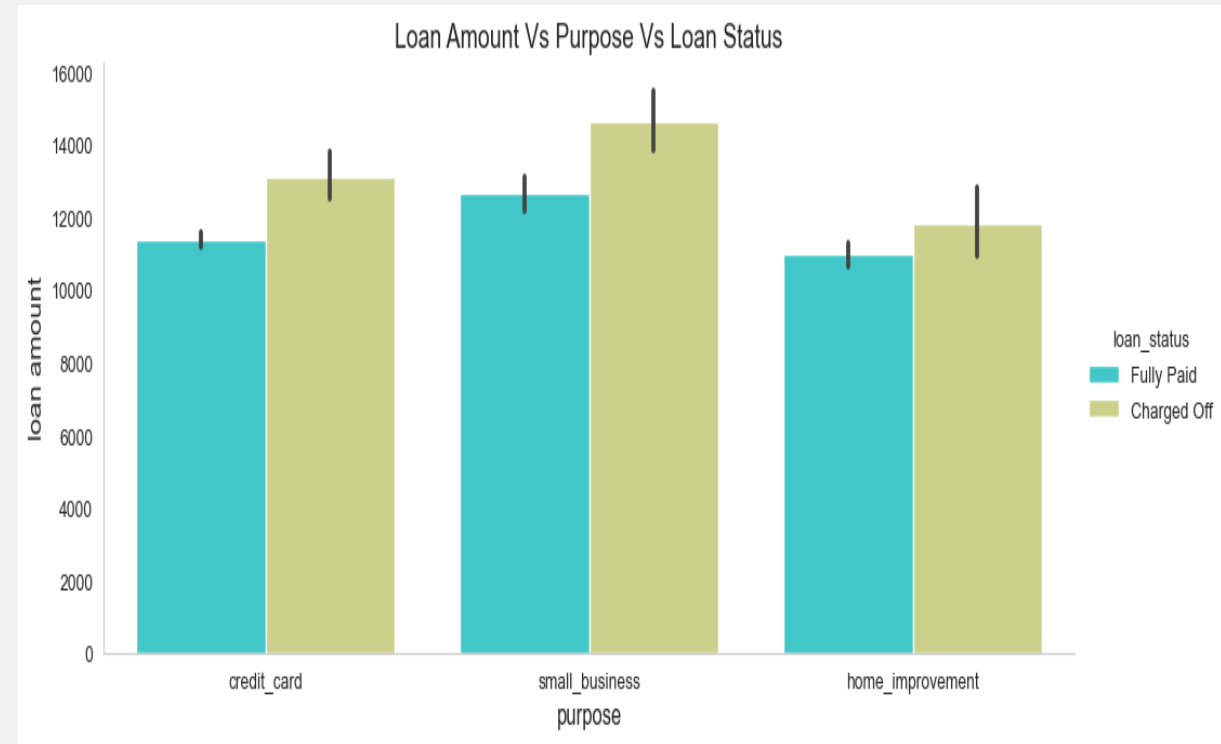
GRADE VS LOAN STATUS

Based on the Grade ,The highest Fully paid is lie under grade B i.e 26.7%



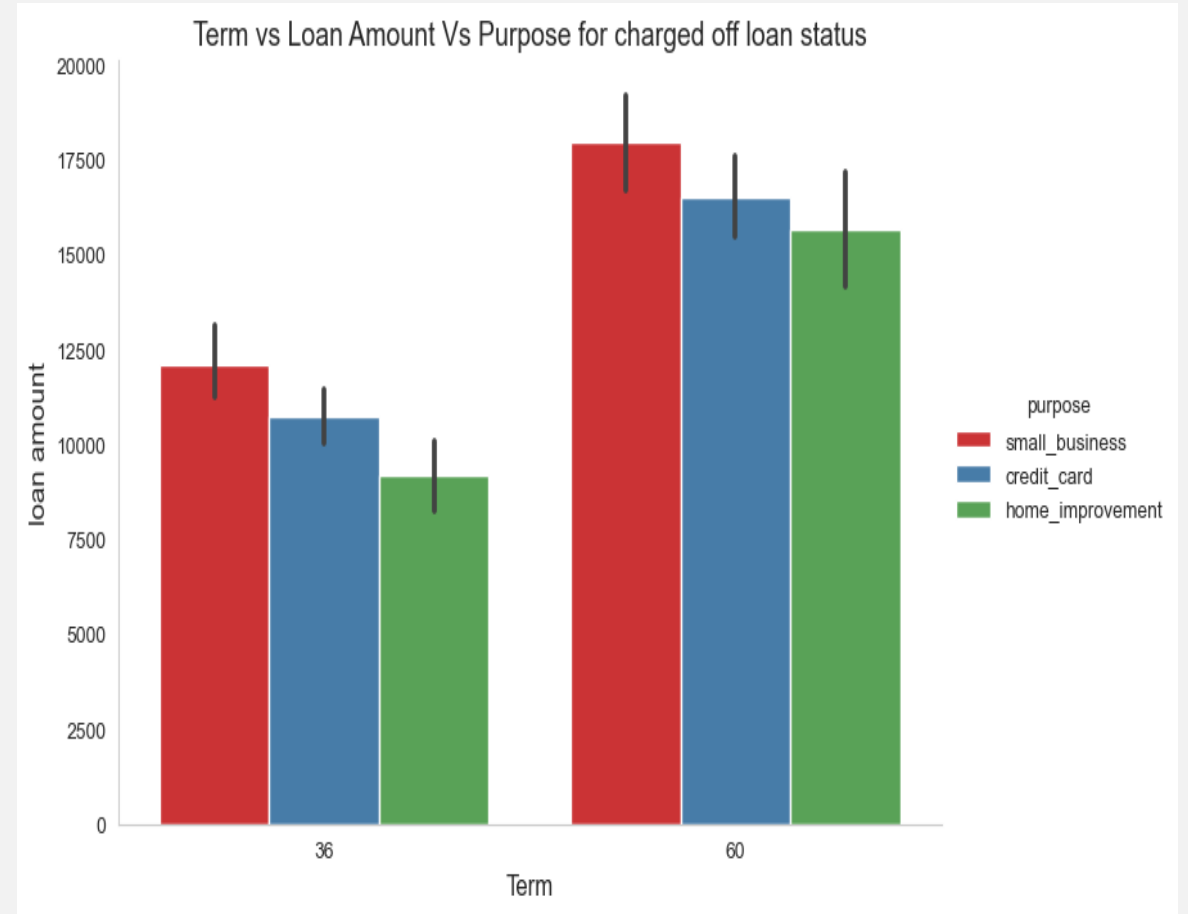
LOAN STATUS VS PURPOSE VS LOAN AMOUNT

More number of applicants have taken loan for Small Business followed by Debt consolidation.

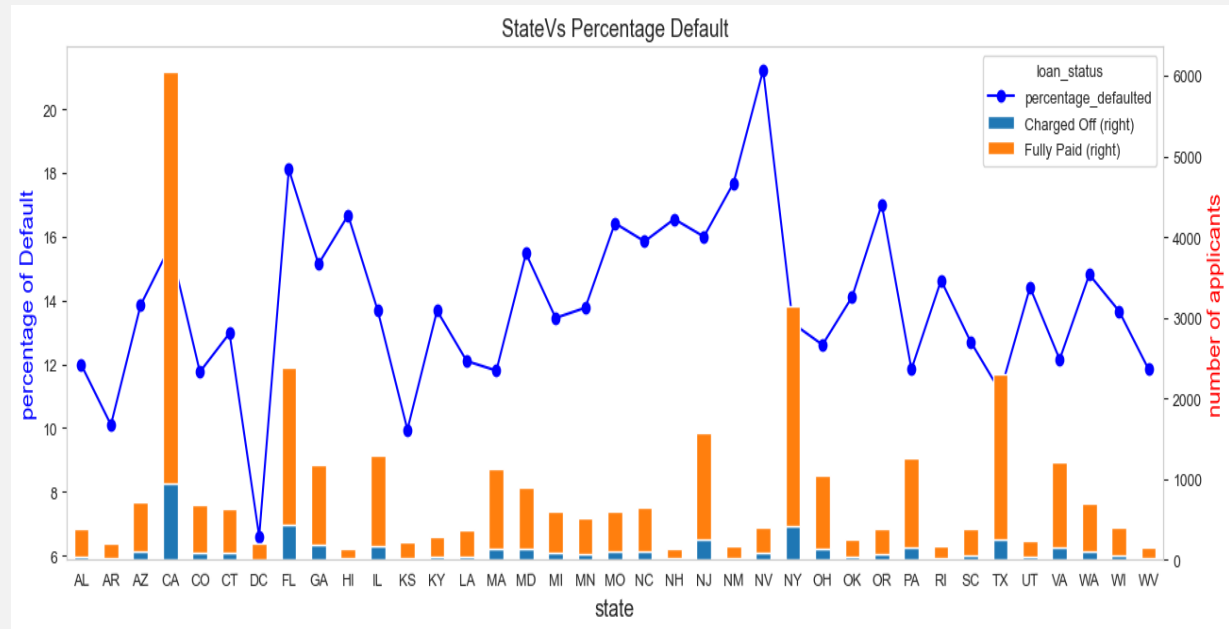


TERMS VS LOAN AMOUNT VS PURPOSE FOR CHARGED OFF LOAN STATUS

More number of applicants have taken a duration of 60 months period for small business loan

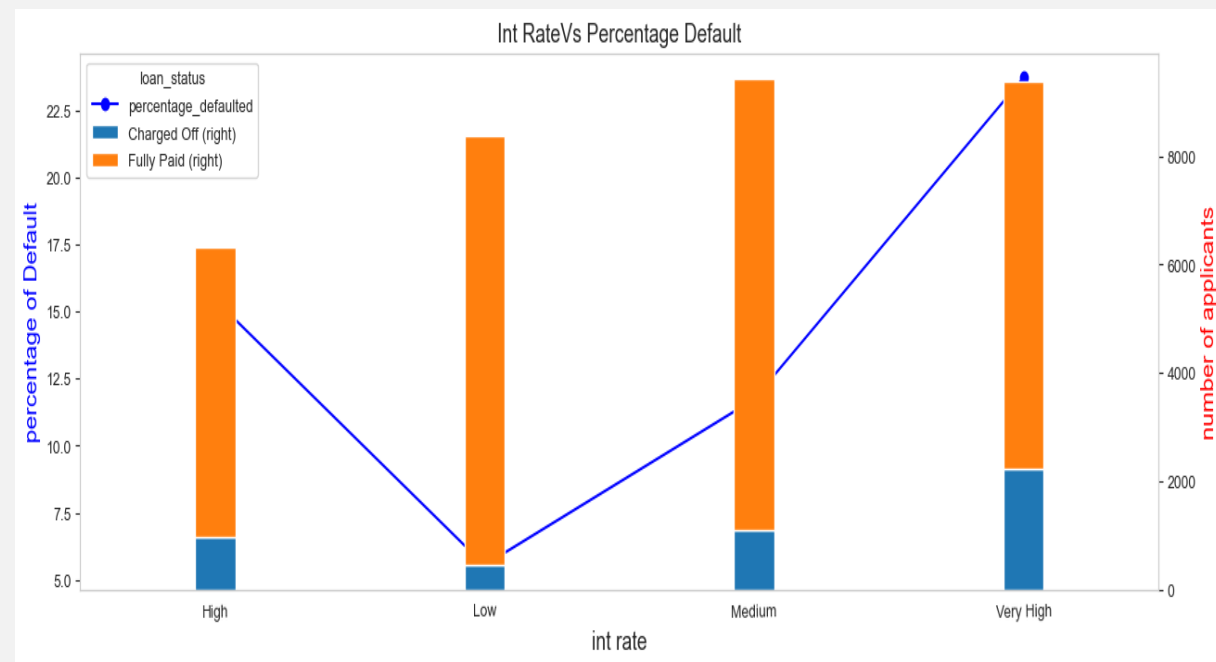


PERCENTAGE OF DEFAULT RATE IN VARIOUS STATUS



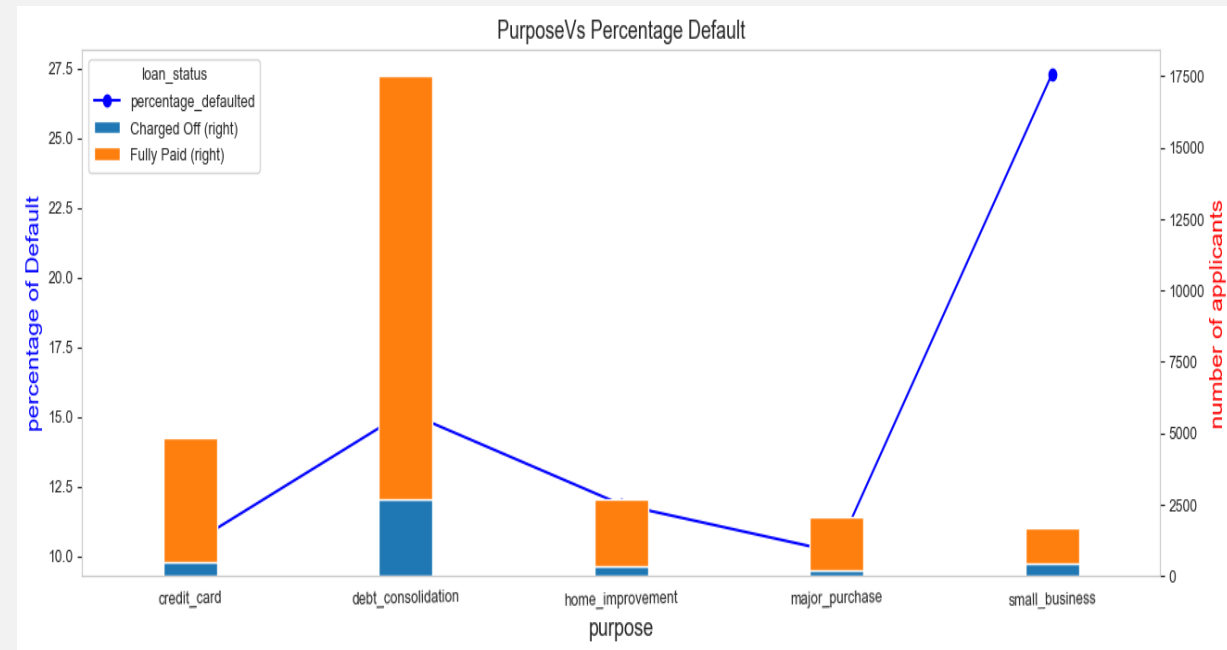
PERCENTAGE DEFAULT FOR INTEREST RATE

Applicants who have taken loan for small business (27.31%) tend to default more.
Higher the interest rate, higher is the loan default • Applicants who have taken a very high interest ($\geq 14\%$) rates are bound to default more



PERCENTAGE DEFAULT FOR PURPOSE

Applicants who have taken loan for small business (27.31%) tend to default more



ANALYSIS CONCLUSION

- Following are the main parameters, taken into consideration for arriving at the analysis conclusion. Loan Status and Loan amount have been compared with the below parameters to arrive at the analysis conclusion
 - Purpose for which the loan is taken
 - Annual Income of the loan applicants
 - Loan duration (term)
 - Grade allocated by the LC
 - Employment Length of the loan applicants
 - Interest Rate of the loan amount
- As per the analysis, it can be inferred that applicants who are of low income group and have taken a high interest loan with longer duration for small business have more probability of defaulting. Hence extra care should be taken before lending them loans