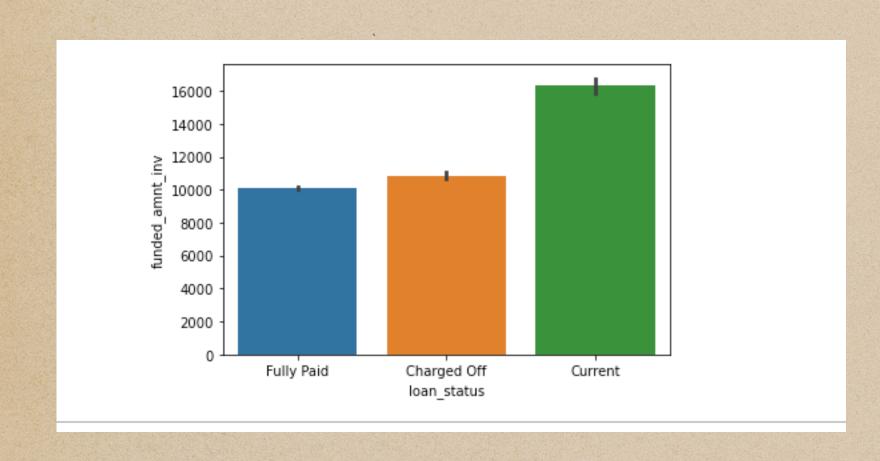
Lending Club Case Study

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Business Problem

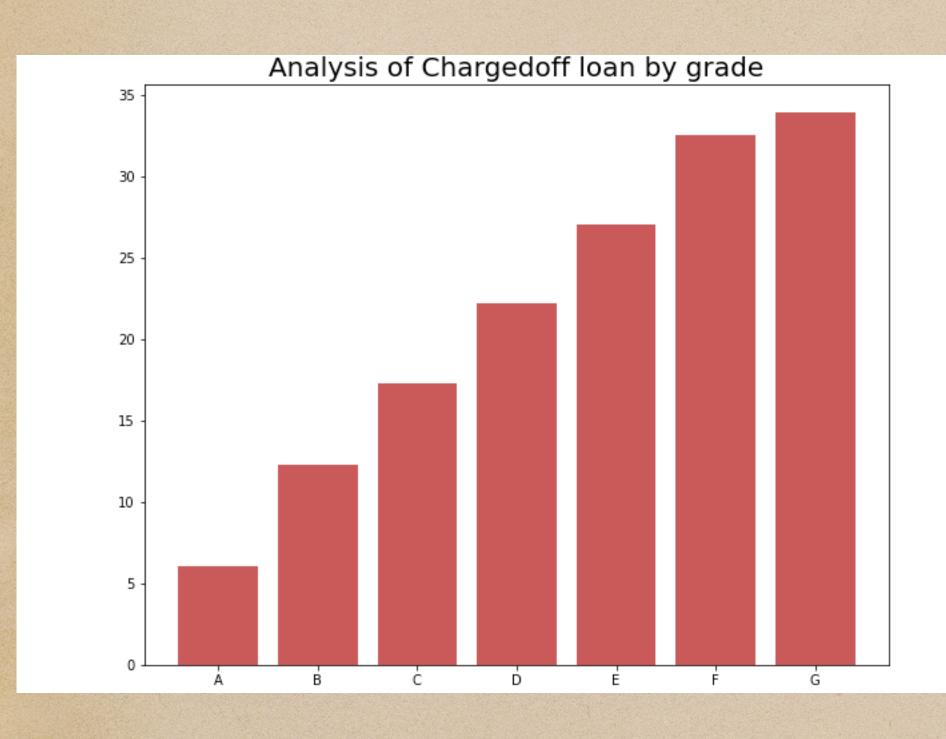
- Lending Club is a consumer finance company which specialises in lending various types of loans to urban customers.
- The data about past loan applicants and whether they 'defaulted' or not has been provided.
- We will use EDA to understand how consumer
 attributes and loan attributes influence the tendency of default.

Data Analysis findings



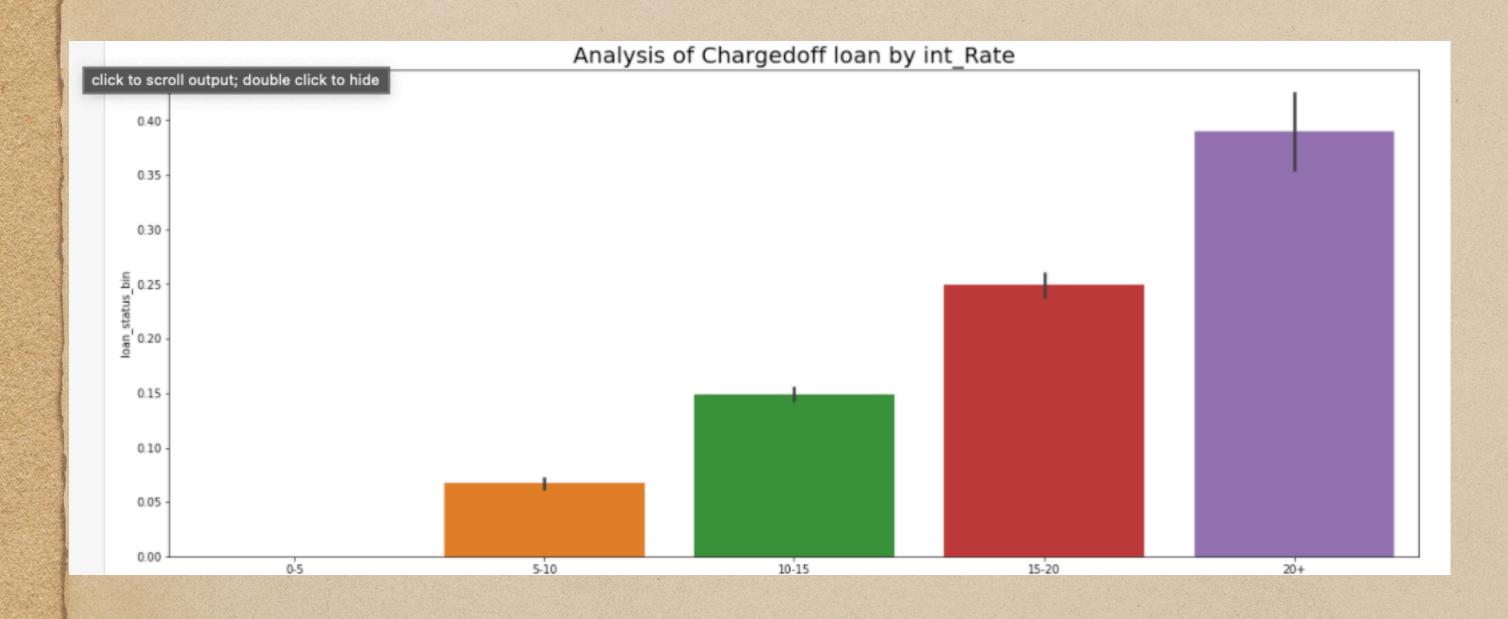
- The defaulted loan amount is slightly higher than the fully paid loan during the same period.
- This is a worrying trend as it impacts the bottom line of the company.

Impact of grade



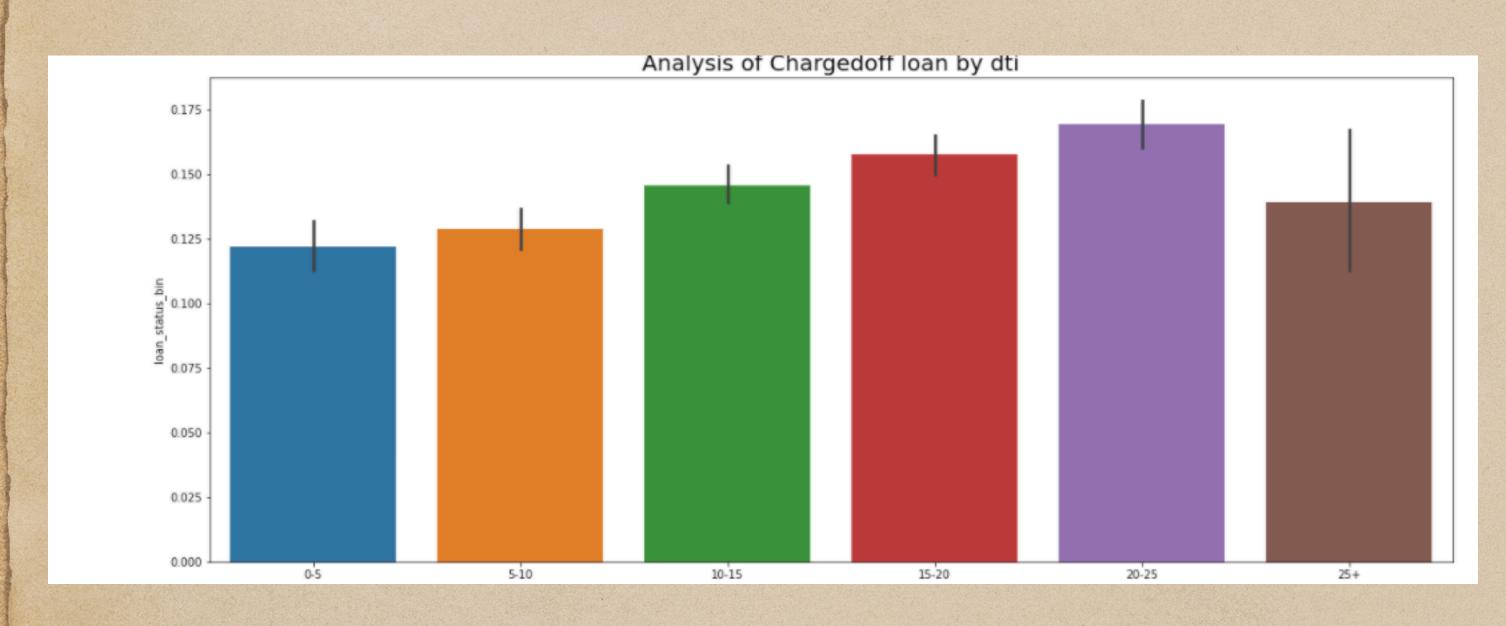
- The load grade has an impact on default
- As the loan grade decreases the % of default increases
- Recommendation to the business to put more controls around lower grade loans

Impact of interest rate



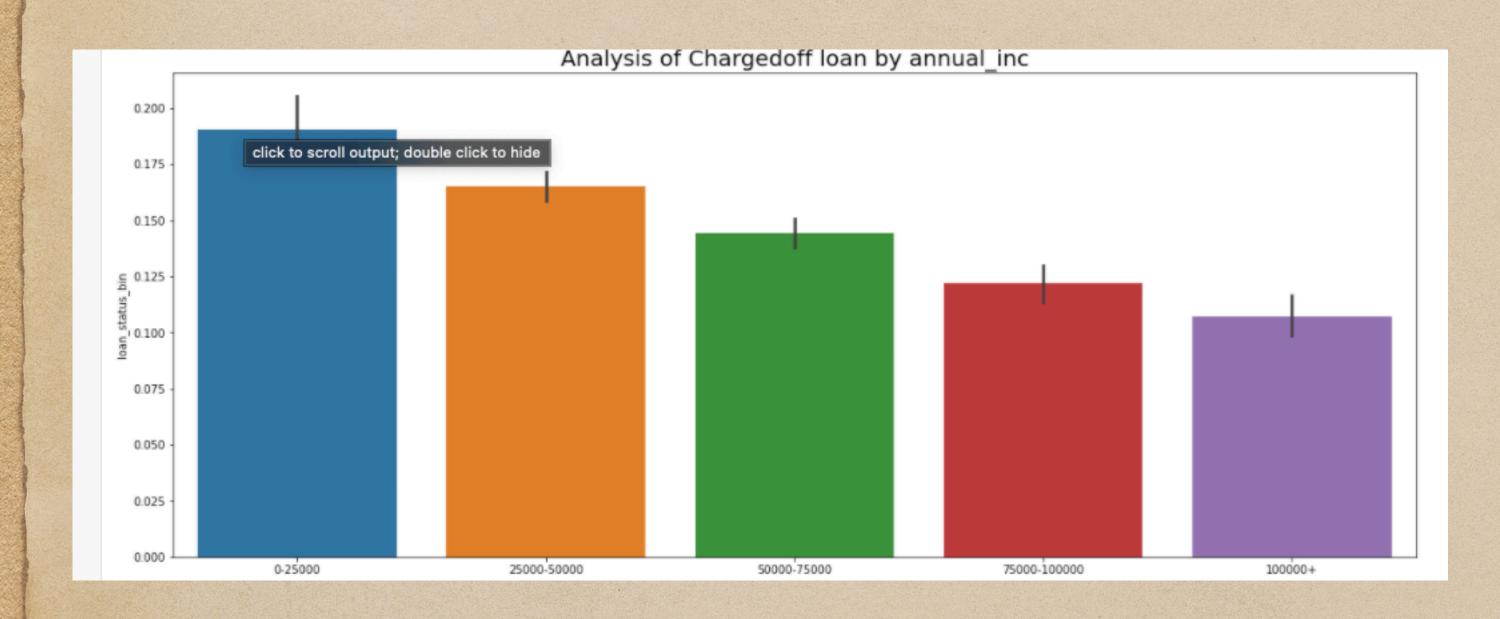
- The loan default increases as there is an increase in the interest rate
- Recommendation to put more controls around higher interest loans

Impact of Debt to Income



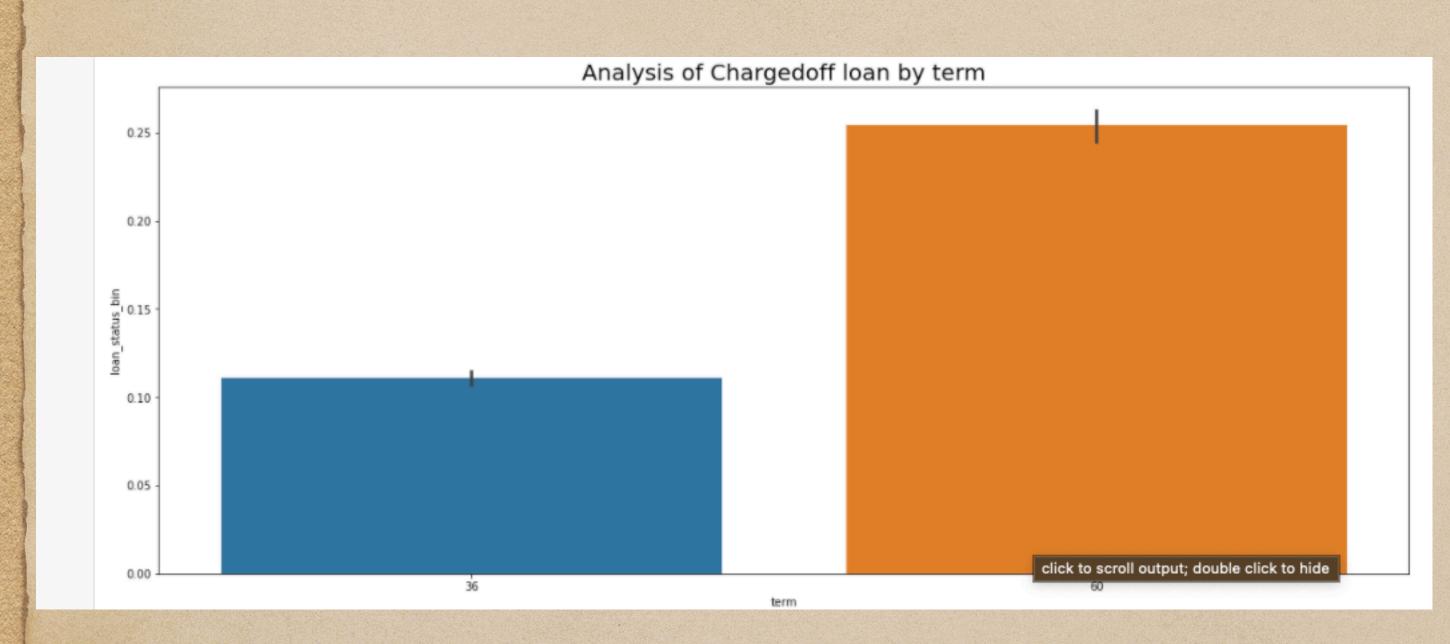
- The default increase as the debtToIncome
 increases
- Recommendation to reduce the risk or put more controls around loans with high debtToIncome

Impact of Annual income



- The default decreases as there is an increase in the annual income
- Recommendation to
 create more controls or
 reduce risk exposure to
 lower annual income loans

Impact of term



- The higher the term the higher the % of default
- Recommendation is to reduce the term for high risk loans

Summary

- The features that have high impact on default are
- Grade
- Debt to Income
- Annual income
- Interest rate
- Term of loan