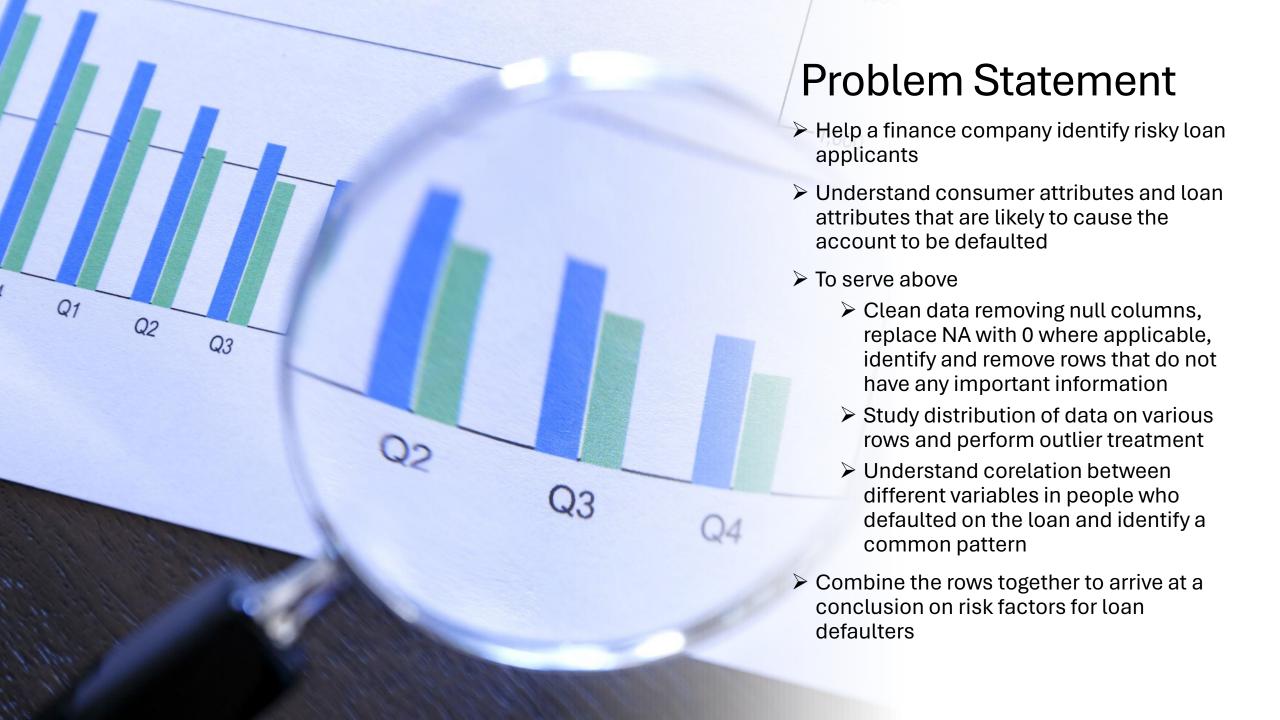


# Lending Club Case Study

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### Data Cleaning

Initial data: 39717 rows and 111 columns

Removed null columns: 39717 rows and 57 columns

Removed columns with only one value: 39717 rows and 51 columns

Removed columns which have more than 20% null values: 39717 rows and 47 columns

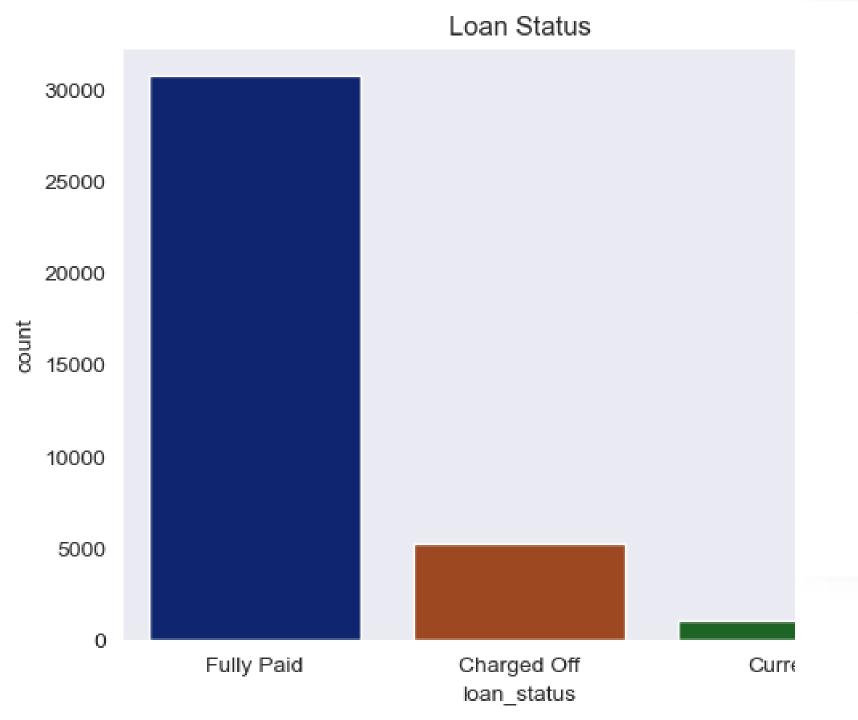
Removed columns with id/membership\_id(all unique vals): 39717 rows and 45 columns

Removing columns not interesting for analysis: 39717 rows, 23 columns

Replace remaining null values with 0

Standardize column values removing trailing string of %, months, x, converting to numeric where possible

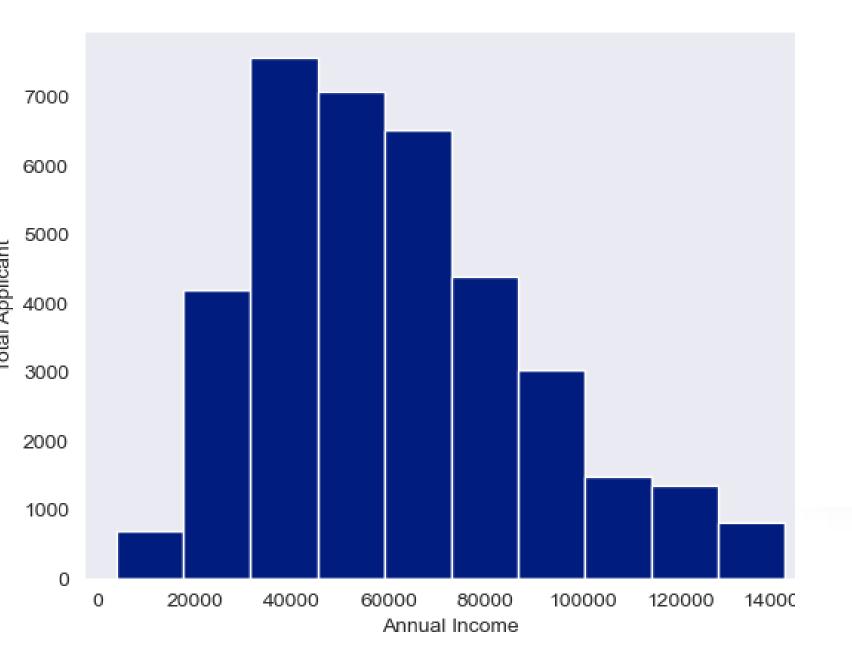
Remove outliers from Loan Amount, Annual Income, Debt to Income ratio columns



## Univariate Analysis: Loan Status

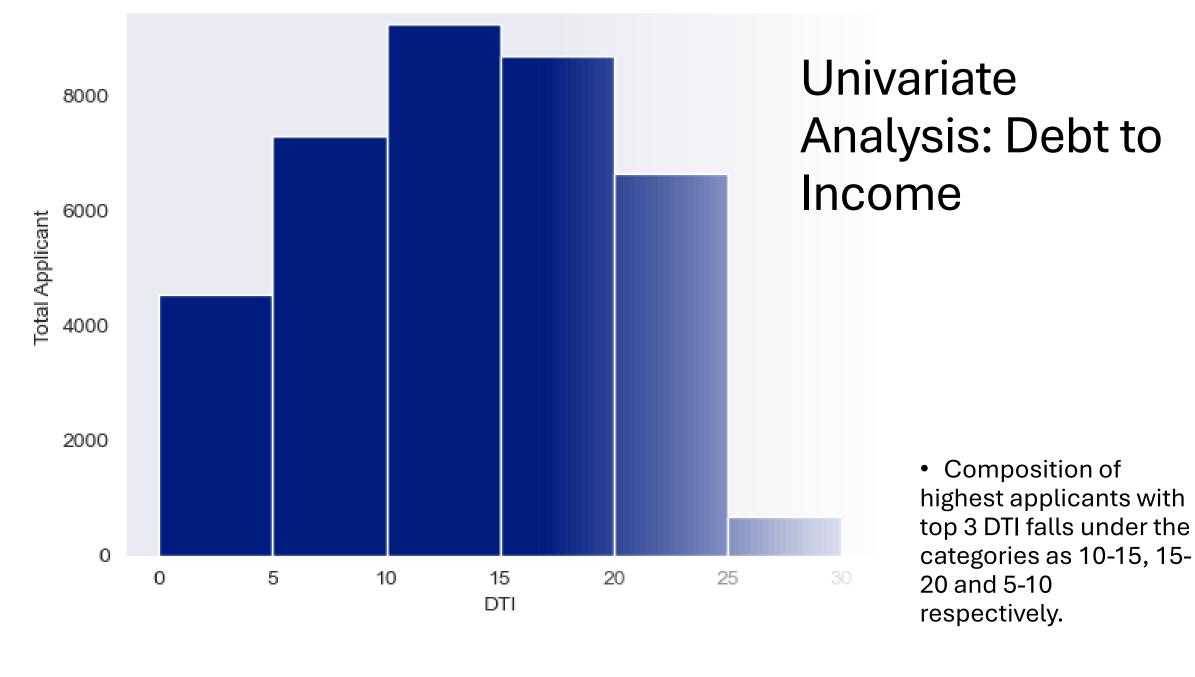
We can see that most of the users in Fully paid category

### Annual Income of the Applicants

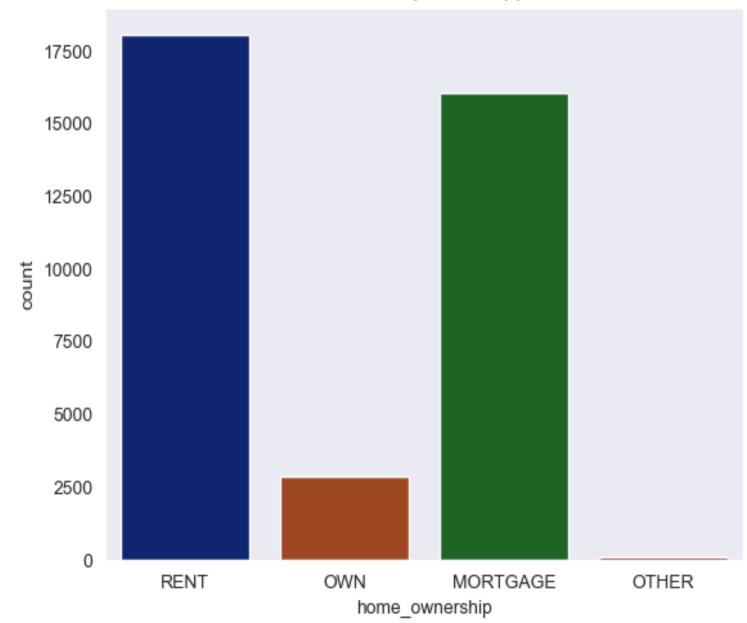


### Univariate Analysis: Annual Income

- maximum number of loan applicants are having a annual income of 30000 40000.
- 4500 people have salary less than 30000.



### Home Ownership of the Applicants



# Univariate Analysis: Home Ownership

most of the applicants are either living on rent or property is mortgage.

