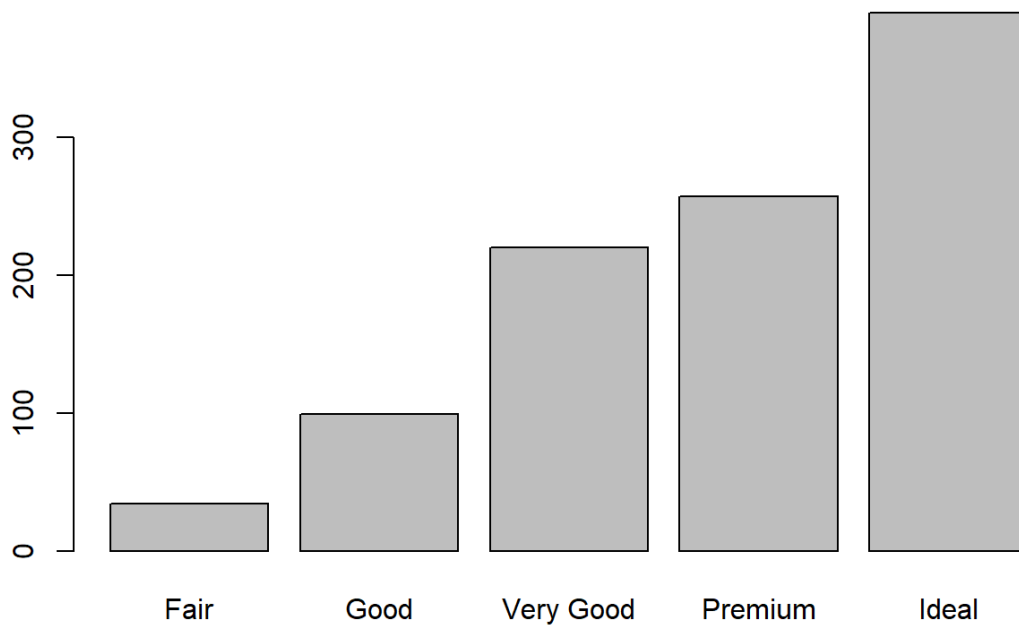


Unit - I

Univariate Data Visualization: Univariate data visualization focuses on representing and understanding the distribution of a single variable. Various types of charts and plots are used, depending on the scale type of the variable:

- For nominal and ordinal variables: Bar charts, stacked bar charts, and pie charts are commonly used to visualize the distribution of categories.
- For interval and ratio variables: Histograms, box plots, and density plots (kernel density plots) are employed to display the distribution of numerical data.

Bar chart using base graphics



Data visualization helps in identifying patterns, outliers, and understanding the central tendency and spread of the variable.