

THE- Data Visualization II

Objectives:

To plot a box plot on an inbuilt datasets & write inference obtained.

Problem Statement:


Use an inbuilt titanic dataset as used in previous assignments/experiment Plot a boxplot for a distribution of age with respect to each other gender along with information about weather and whatever they survive or not.

Theory:

As we know, data visualization is a technique of translating information or data into a visual context such as map or graph to make data easier to understand and comprehend.

Boxplot (Whisker plot):

- ① This is one of the most used plots in the field of data science.
- ② It shows distribution of quantitative data in a way that facilitates comparison between variables or across levels of categorical variables.
- ③ It helps to detect outliers more easily than swarm plots.

 Data

④ It creates summary of the set of data values having properties like min, first quantile, median third quantile and max.

⑤ Box is created from the first quantile to the third quantile, a vertical line is also drawn which goes through the box at the median.

Conclusion:

Thus we have successfully implemented boxplot technique to obtain observations through interquartile range from statistics.

