

CASE STUDY: TITANIC DATASET



Data Loading and Exploring

- 1) Load data on python
- 2) Print starting 10 rows and last 10 rows
- 3) Shape of the data
- 4) Print all columns name
- 5) Find the data type of all the columns
- 6) Print information and summary

Data Cleaning

- 7) Map the Sex column male=1, female =0
- 8) Find Null values
- 9) Replace Null value to Median value
- 10) Drop unwanted columns

Exploratory Data Analysis (EDA)

- 11) Count Survived and show on pie chart
- 12) Find out how many female passengers had travelled in first class and show on pie chart
- 13) Find out how many female passengers had Survived and her age <30, show on pie chart and bar graph
- 14) Find out how many male passengers had Survived and his age >40, show on pie chart
- 15) Show age with 20 bins
- 16) Show age frequency with survived and not survived (Histogram)
- 17) Show Bar graph for Survived with male, female, class
- 18) How many passengers are travelled in different classes show in Bar graph
- 19) How many passengers are survived with class wise and show in Bar graph
- 20) Show Question-13 & Question-14 in subplot
- 21) Show Bar graph for Survived with 3rd class male, 1st class female
- 22) How many passengers are survived / not survived and they are 1st class female