

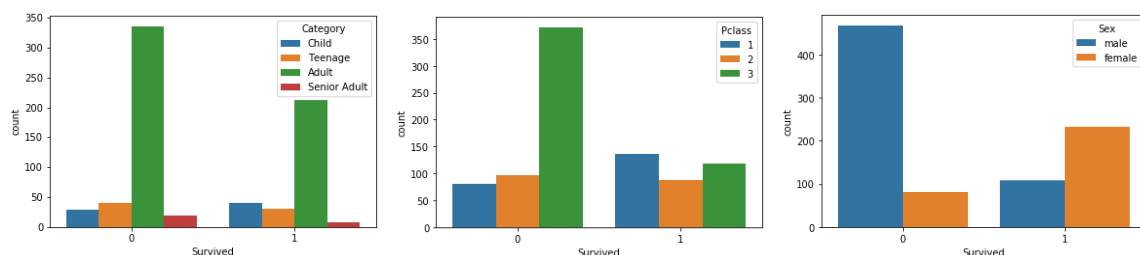
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Assignment 3: Titanic Dataset

Overview

Given dataset “titanic” has 891 observations with 12 features. It provides details about the data of passengers, the number of survivors, and its association with gender, who survived and age. It also gives details regarding the name, ticket number, cabin and fare of passengers who were travelling via the titanic. For the analysis, we plot graphs of survival rates against the following variables: Age, Sex and Class.

This helps in examining the trend of people who survived after the titanic accident.



“0” in survived feature refers to the number of people who did not survive after the crash.

“1” here represents the number of people who survived.

Survival Rate vs Age: The first graph represents survival count with reference to age groups. From all the age groups here, “adults” are the ones who survived more and also died more. Children have more survival rate than death rate but more adolescents lost their lives on this ship with senior citizens following a similar trend.

Survival Rate versus Pclass: The second graph represents survival rate according to class of passenger’s ticket. Class 1 has more people who survived as compared to other class passengers. Second class passengers have almost the same rate for both survival and death rate. Against the trend, there is a marginal difference in class 3 passengers, where more people died rather than survived.

Survival Rate versus Gender: The final graph displays the number of males and females who survived on titanic. It can be seen that females have a higher rate of survival than men, as over 400 males died and less than 100 females died during this accident.

This provides the information about different features and its effect on the survival rates in accordance with the titanic incident.

Conclusion: After performing the analysis, it can be concluded that adult females from first class ticket have the highest chance of survival, with this category of people has most number of survivors, and the rest of the age group of females and male category has fewer counts of people who survived.

