

Titanic Passenger List

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Introduction to Titanic data set

Data set contains details of 1309 Titanic passengers including name, sex, age, class, survival etc. In which, 500 passengers survived from disaster and 809 passengers were killed in 1912. The survival rate of passengers might be impacted by several major factors like age, gender, economic class, family. This data set is mainly used to analyze the survival rate of each passenger in the ship.

Data set has below parameters:

Pclass: Passenger's class – 1st, 2nd and 3rd class

Survived: Boolean value denotes 0=No, 1=Yes

Name, sex, age: Name of passenger, gender and age respectively

Sibsp: Number of siblings of passenger

Parch: Number of family members of passenger

Ticket, Fare: Ticket number and passenger's fare

Questions

I have investigated on below questions from given data set.

- I. Did age group impacts the survival rate of passengers? If yes, how it impacted?
- II. How Gender impacted chance of passenger survival?
- III. Did economic class of passenger played major role in chance of survival and how it impacts passenger's survival rate?

Data Visualization Patterns

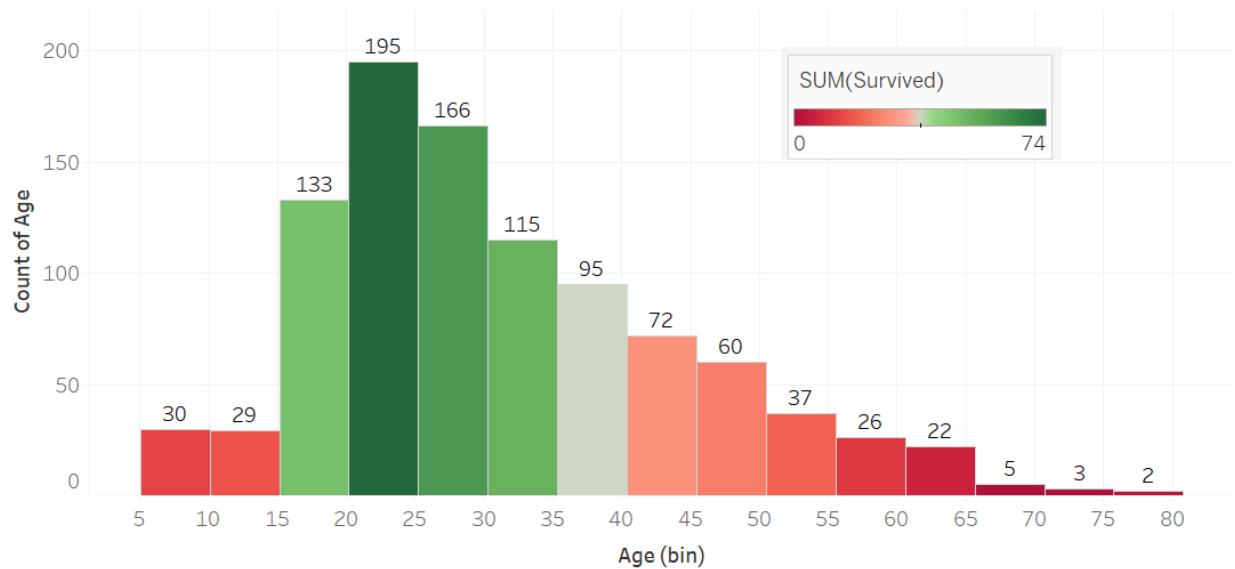
I. Age impacts chance of survival

From below visualization pattern we can conclude that age played major role in chance of survival of passenger. People aged between 15-35 years had more chance of survival than remaining age group of people. 20-25 aged passengers were mostly out of danger and old people had less chance of survival. (As age increases from 40-80, chance of survival decreases)

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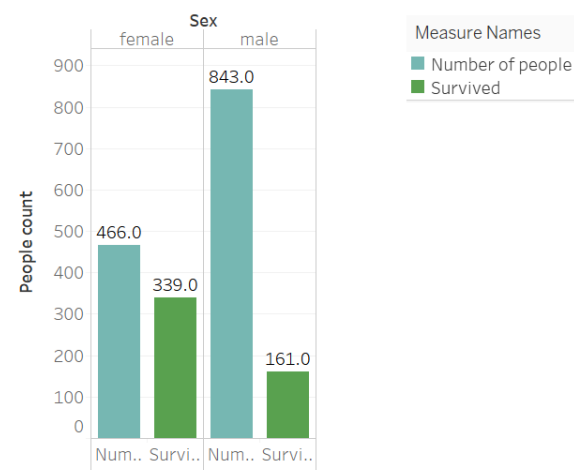
Age factor on passenger survival



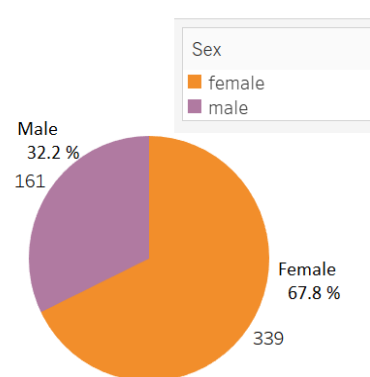
II. Gender impacts chance of survival

According to data set, female passenger count is 466 and male count is 843. But visualization clearly shows that percentage of survived women is higher than percentage of survived men. Hence women have much chance of survival and gave much preference to catch life boats than men.

Gender impact on survival rate



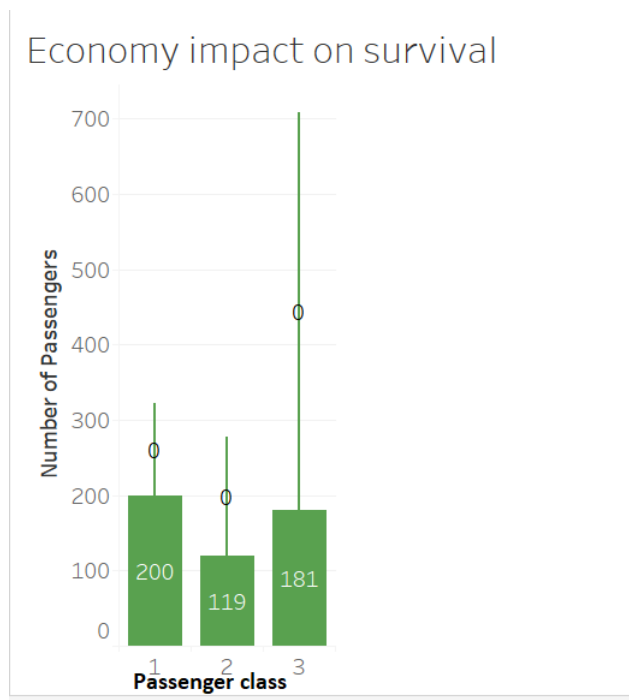
Male Vs Female survival



III. Economy class factor on survival rate

Ship has three economic classes 1,2 and 3. Class 1 is located on top of the ship and near to the deck which contains life boats whereas class 3 is located at bottom of ship. Below graph gives total count of passengers in each class and count of survived passengers in each class. Even though class 3 people are more (Count nearly 700) than remaining classes, counts of survived passenger are comparatively less than class 1 and 2. Class 1 has highest survived passengers than remaining classes.

Hence economy impacted chance of survival of titanic passenger.



Above three visualizations helped me to answer particular questions from Titanic data set.