Analysis of Titanic Passenger Data

A graph of age and age

Description automatically generated

The histogram on the right represents the breakdown of the ages of the passengers on board the titanic. For the most part the passengers were aged 30 or younger, with the largest group of passengers coming from the 20-30 age group.

A red and green circle with a green line

Description automatically generated

The number of deaths on the Titanic was greater than those who survived. This can be attributed to the fact that there were not enough lifeboats and the delayed response from other ships. Additionally, the breakdown of those who died can be assumed to be largely men as women and children were prioritized with the few lifeboats available.

A graph of different colored bars

Description automatically generated

Speaking of the breakdown of deaths, the provided bar graph breaks down the number of survivors and deaths based on gender and class. Not only did more men die overall as a result of the sinking, but also those passengers in third-class had a lower chance to survive than their second and first-class counter parts.

A graph of different colored bars

Description automatically generated

The price of riding aboard the Titanic is not only influenced by the class but also where you would have embarked from. As expected, the first-class passengers experienced a higher average ticket price. However, among second and third-class passengers those who embarked from Southampton experienced higher average prices than other, while those who embarked from Queenstown experienced lower average prices.

A graph of a number of points

Description automatically generated

The passenger age and fare price are very slightly positively correlated with a correlation score of 0.338. This graph shows that almost all fares are below $25 regardless of age. However, this concentration rises slightly for passengers older than ~45 years old. Therefore, it could be very loosely generalized that older passengers were able to or wanted to purchase more expensive first-class tickets.