

Titanic Dataset Survival Analysis Report

Introduction

This report analyzes the Titanic dataset, which contains information about passengers on the Titan. The objective is to identify factors that influenced passenger survival.

Data Exploration

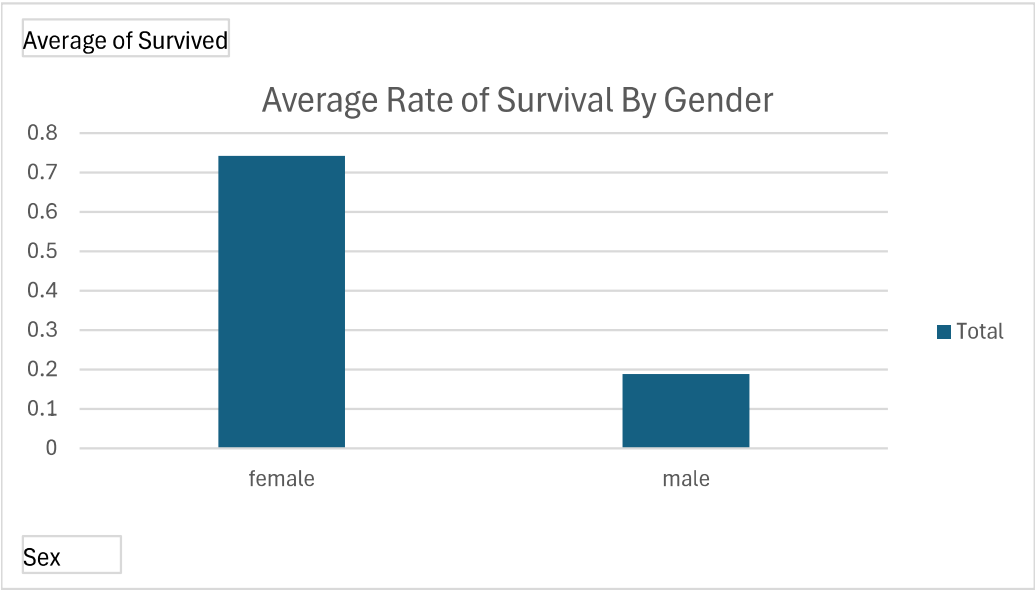
Average age of passengers: 30 Years Old
Median fare: \$14.45
Average Fare: \$32.20
Number of male and female passengers: Male = 577, Female = 315
Number of passengers who survived in each passenger class: First Class = 196 Second Class = 87 Third Class = 49
A Total of 342 passengers survived, equaling a 38% chance of survival

Survival Analysis

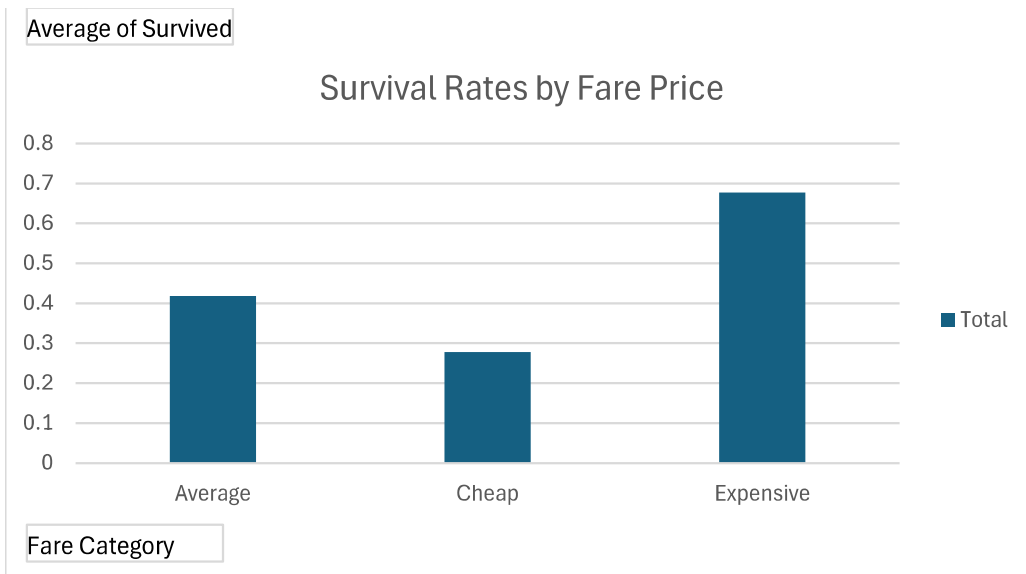
Survival rates were significantly higher for females (74%) compared to males (19%).
Passengers in first class had the highest survival rate (63%) followed by second (47%) and third class (24%).
Seniors had a higher survival rate (50%) than children (39%) and seniors (41%).
A Total of 342 passengers survived, equaling a 38% chance of survival

Visualizations

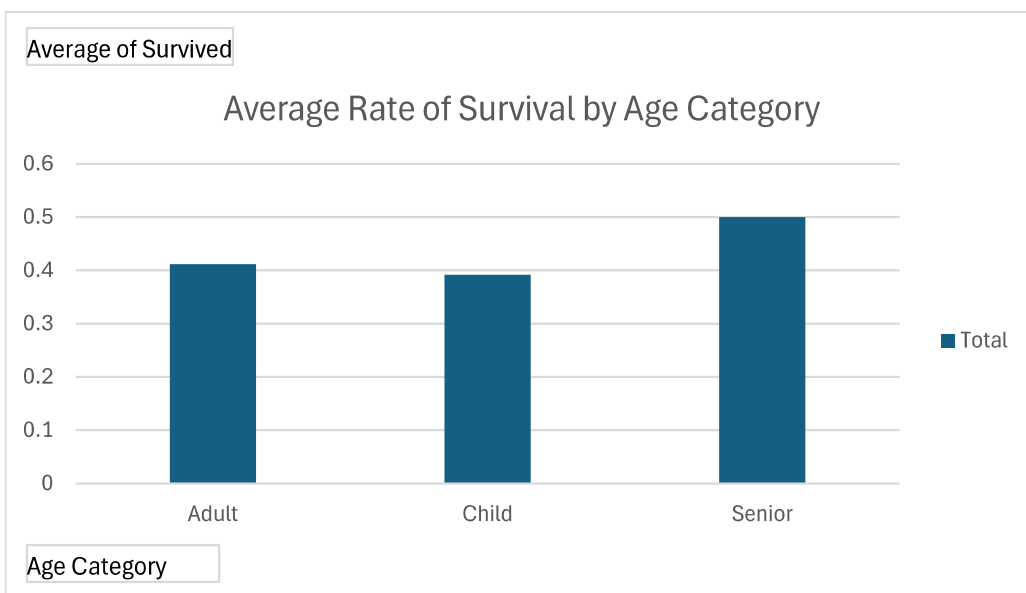
The bar chart below shows the survival rates by gender, demonstrating the significantly higher survival rate for females.



The bar chart below shows the survival rates by fare price, demonstrating the significantly higher survival rate for passengers with higher fare prices.



The bar graph below show the survival rates by age category, showcasing Seniors had higher survival rates t



Conclusions

In conclusion, we were able to determine that gender, age, fare price, and passenger class were significant. Individuals who paid \$50 or more for their fare alongside individuals 65 or older were more likely to survive.

This disparity in survival rates between males and females may be due to a possible 'women and children first' policy. The higher survival rate for seniors may be attributed to a higher level of focus and care for them as they may have been prioritized. Additionally, first-class passengers likely had easier access to lifeboats due to how close they were to the exits.

While these inferences offer valid explanations, it's important to note that the dataset doesn't encompass the full context of the event. It doesn't include information about the specific actions of the crew or the exact order in which they evacuated the ship.

Overall, these inferences are based on patterns observed in the data and should be considered within that