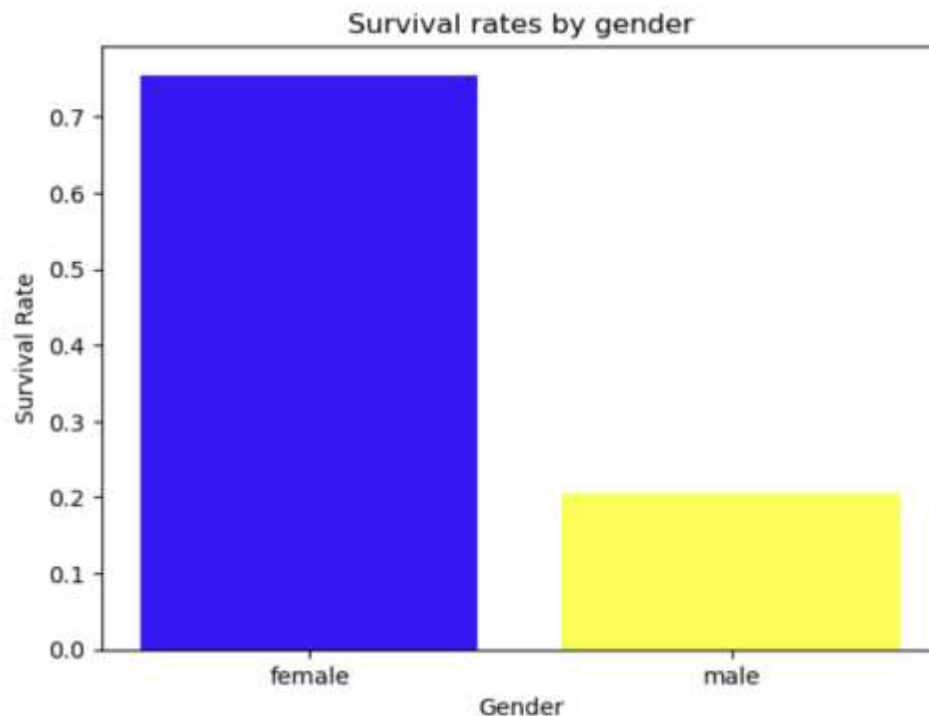


Summary of Statistics

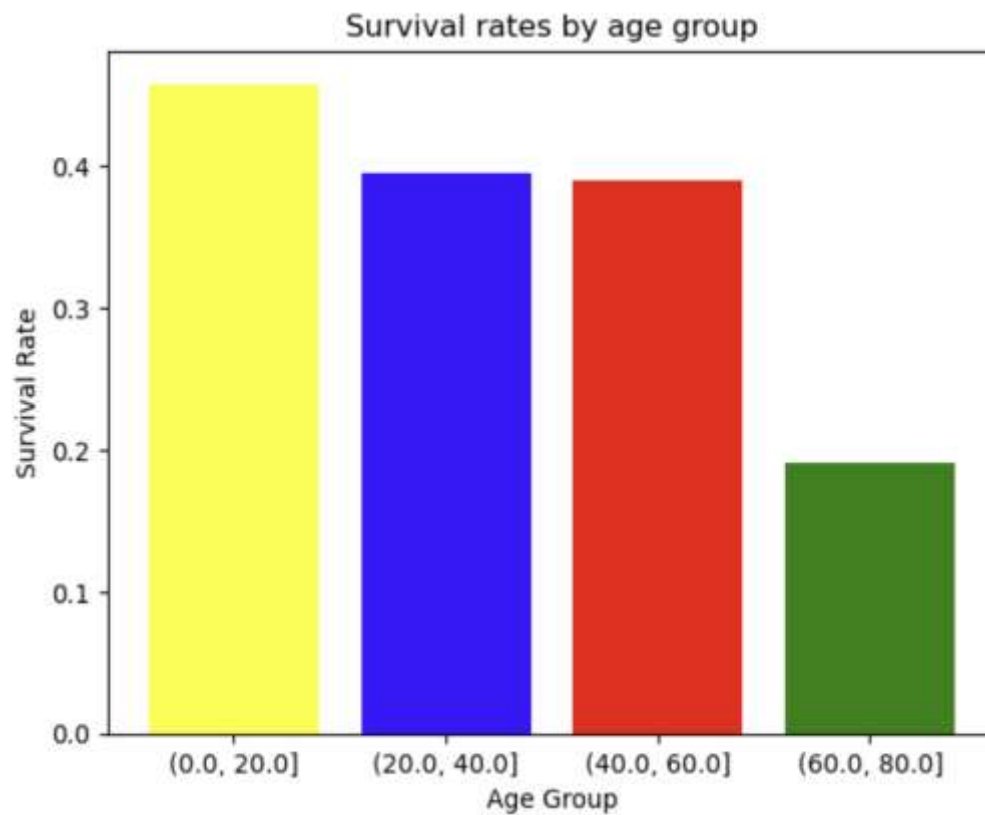
Here are the summary statistics of five hypotheses for the dataset Titanic.csv from Kaggle(<https://www.kaggle.com/c/titanic>). For each one of these hypotheses, we created a plot that briefly describe the association between survival rate and passenger gender, age, class, paid fare, and port of embarked.

Survival rate association with the passenger gender.



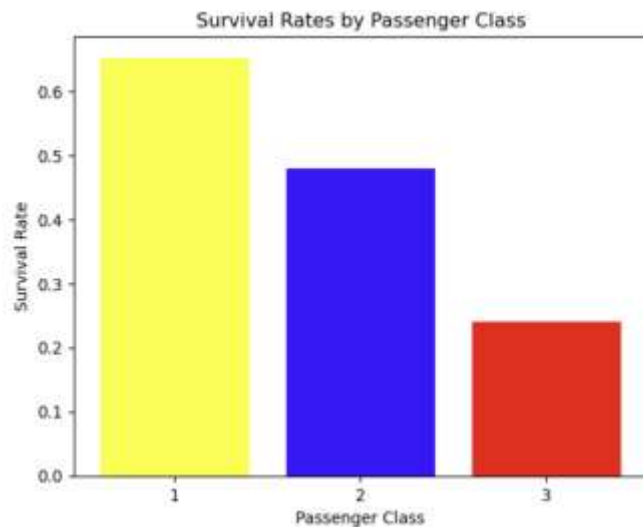
This is a bar chart of the survival rates by gender on the Titanic. The plot shows that the survival rate for females is higher than that of males and clearly shows that the difference in survival rates between males and females is significant, so females got a higher chance to survived during the Titanic disaster.

Survival rate association with the passenger age.



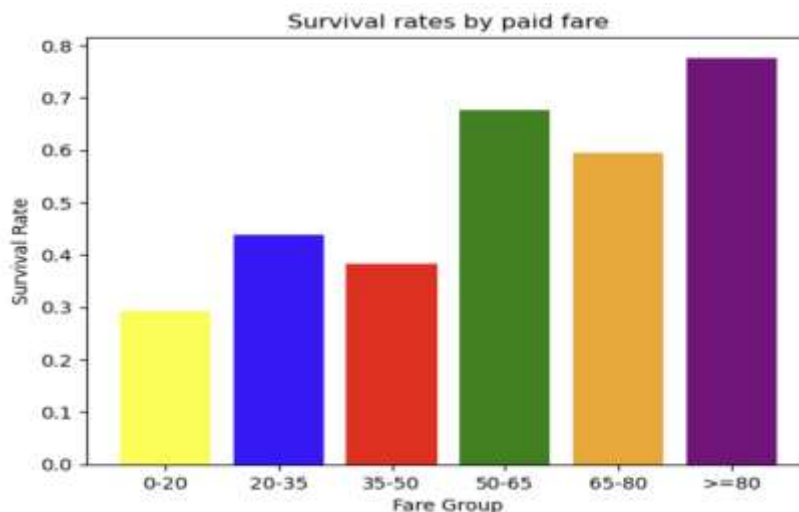
This is a bar chart of the survival rates by age on the Titanic. The plot shows that children and younger adults had higher survival rates than older passengers on the Titanic, we cannot say the same for the old passengers who chance of survived to the Titanic disaster were considerably lower that the rest of the passengers aboard that day.

Survival rate association with the passenger class.



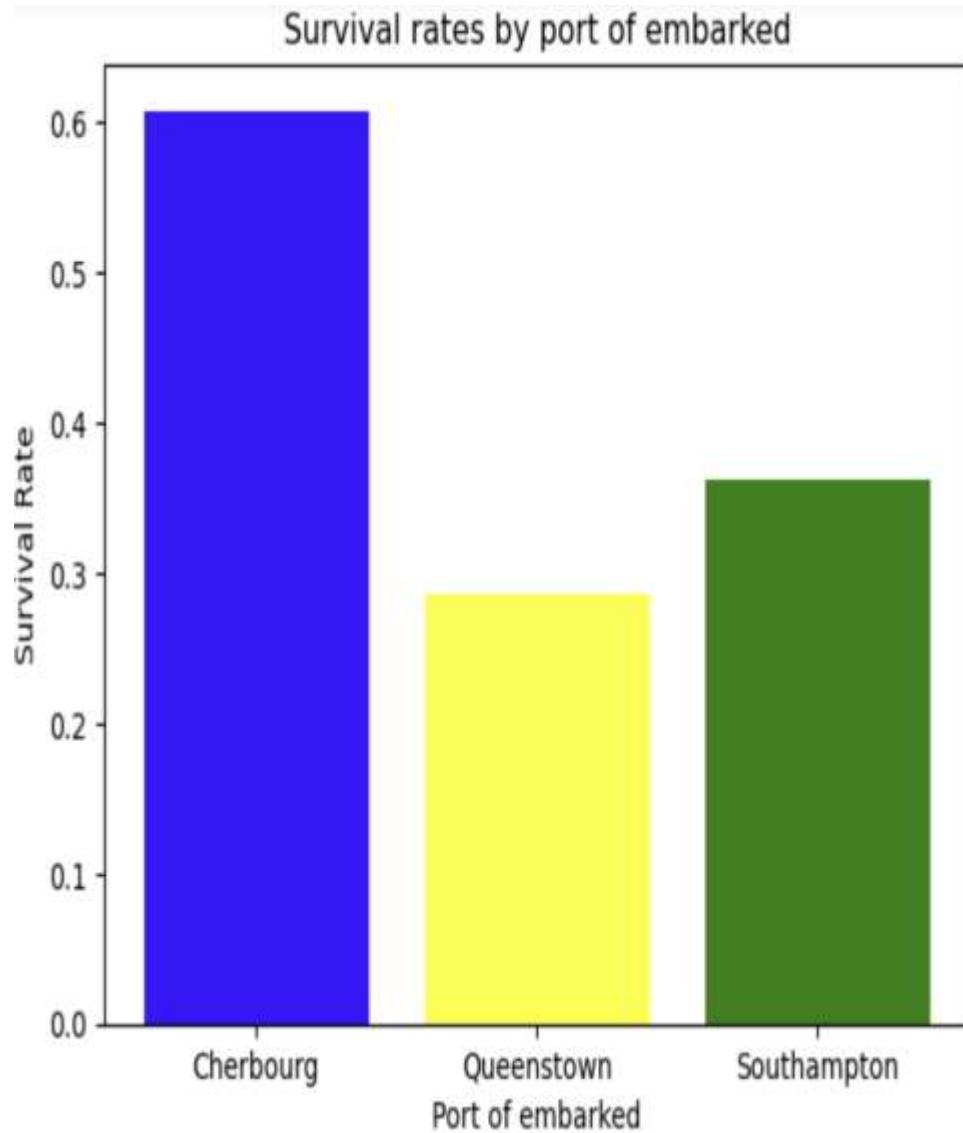
This is a bar chart of the survival rates by passenger class on the Titanic. The plot shows that the first-class passengers had a higher survival rate than the second-class passengers, who in turn had a higher survival rate than the third-class passengers this clearly indicate that while higher was your class more chance they must survive.

Survival rate association with the passenger fare.



This is a bar chart of the survival rates by passenger paid fare on the Titanic. The plot shows that the passengers who paid higher fares had higher survival rates than those who paid lower fares, probably many of the passengers with higher paid fares are first class passengers.

Survival rate association with the passenger port of embarked.



This is a bar chart of the survival rates by passenger port of embarked on the Titanic. The plot shows that the passengers who embarked from Cherbourg had a higher survival rate than those who embarked from Queenstown, who in turn had a higher survival rate than those who embarked from Southampton.