Summary of The EDA on Titian Dataset

Summary Statistics

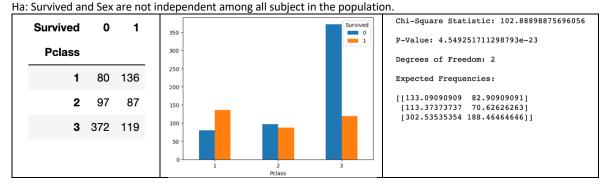
We began our analysis by computing summary statistics for the dataset. The dataset contains 891 rows and 12 columns. There are missing values in Age, Cabin and Embarked columns.

Methods

All the analysis are performed using side-by-side bar charts and chi-square tests.

Hypothesis and Results

1. Determine if the survival status is associated to the class of passenger H0: Survived and Sex are independent among all subjects in the population.



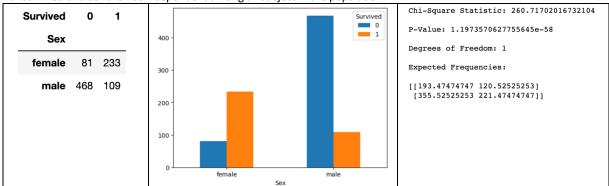
Since the p_value is less than 0.05,

we will reject the null hypothesis and conclude that there are significate association between 'Survived' and 'Sex'.

2. Determine if the survival status is associated to gender

HO: Survived and Sex are independent among all subjects in the population.

Ha: Survived and Sex are not independent among all subject in the population.



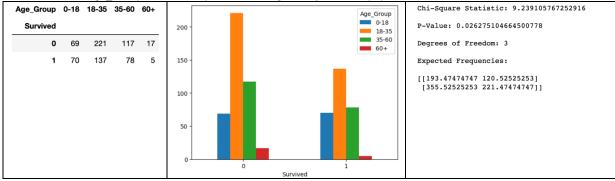
Since the p_value is less than 0.05,

we will reject the null hypothesis and conclude that there are significate association between 'Survived' and 'Sex'.

3. Determine the survival status is associated to age

HO: Survived and Age_Group are independent among all subjects in the population.

Ha: Survived and Age Group are not independent among all subject in the population.



Since the p value is less than 0.05,

we will reject the null hypothesis and conclude that there are significate association between 'Survived' and 'Age_Group'.