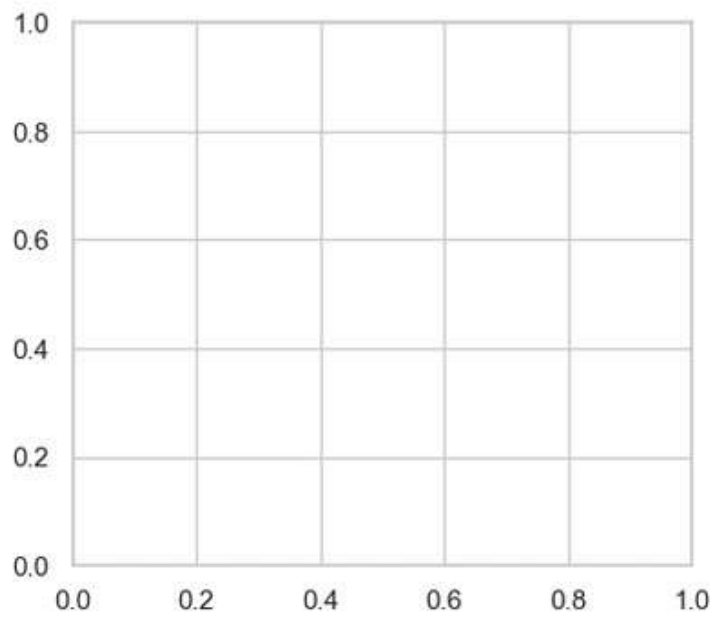
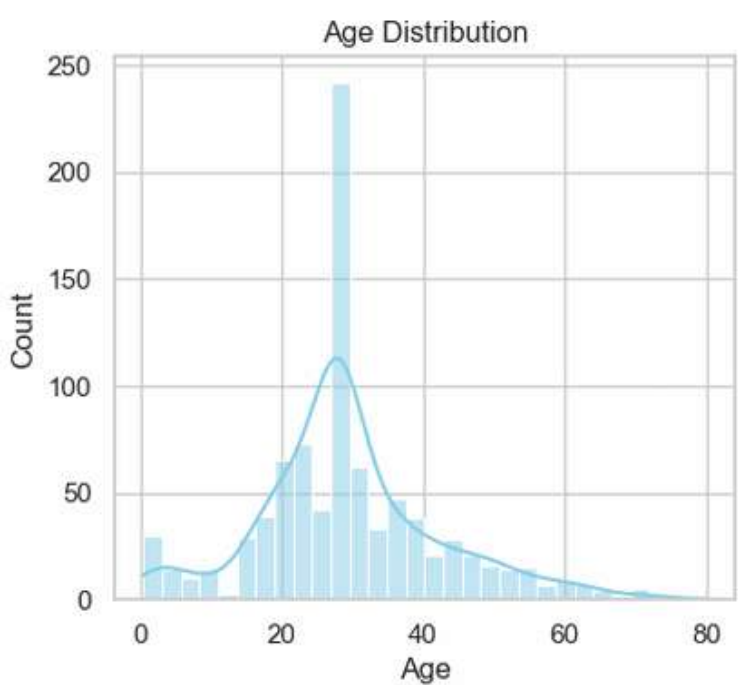
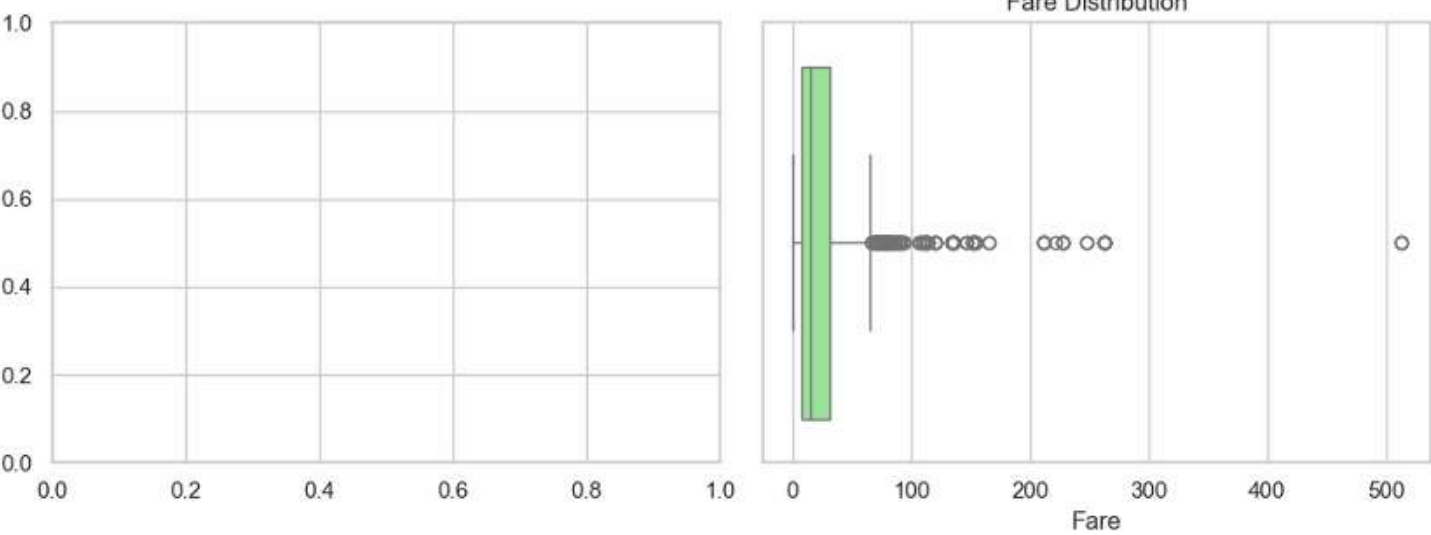


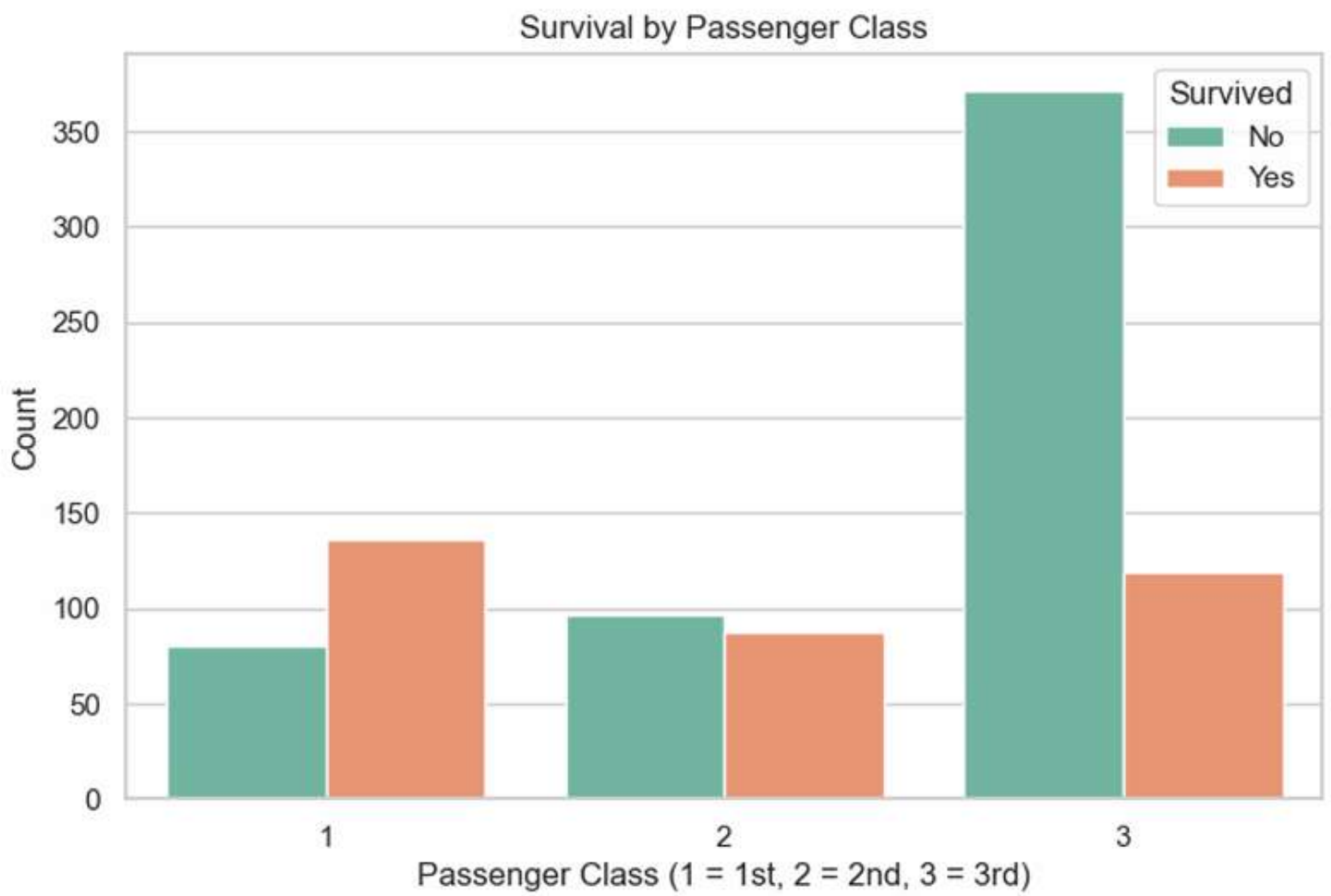
Text(0, 0.5, 'Count')



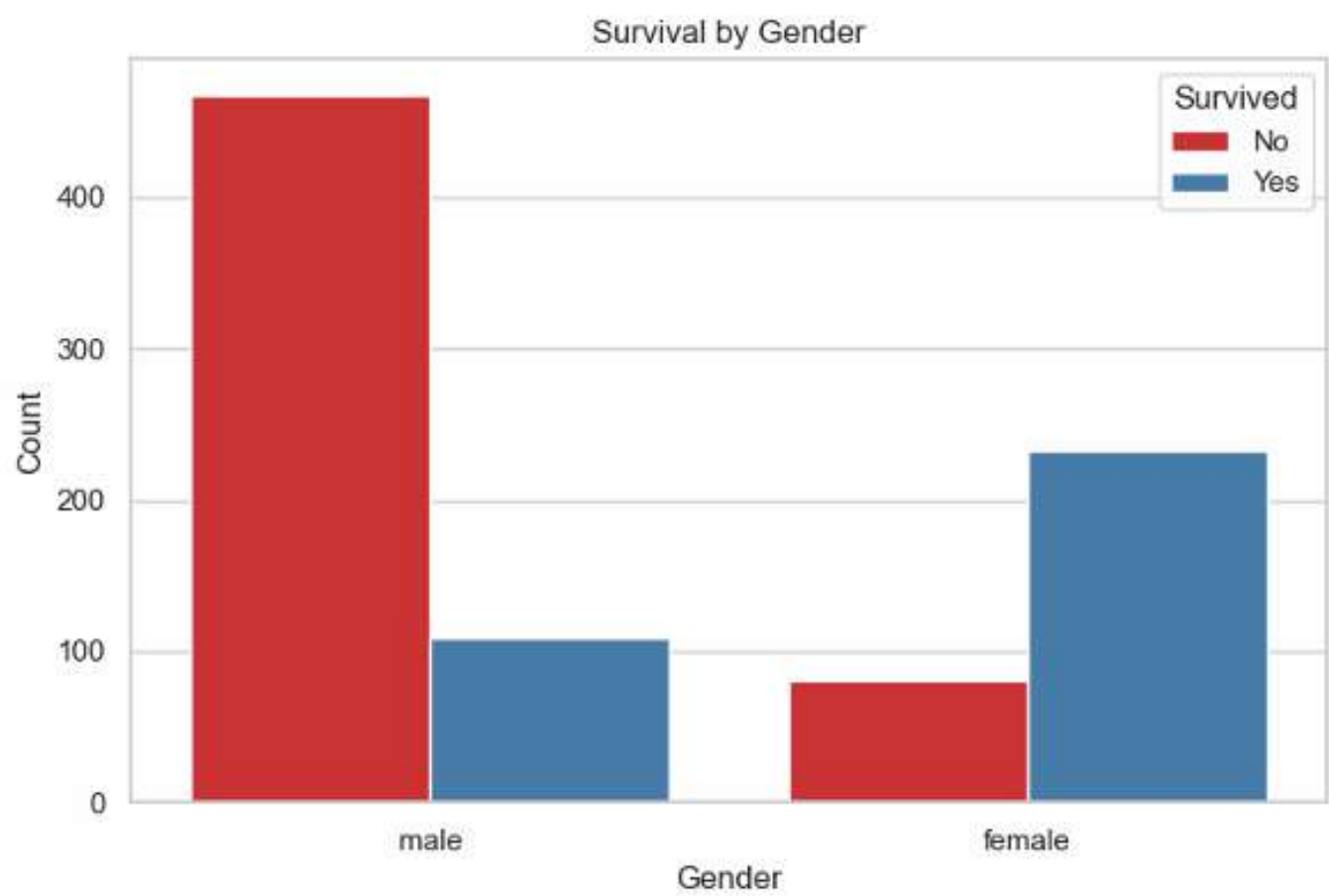
Rowlet for Fano

Task 5_ Exploratory_ Data _Analysis_ (EDA)

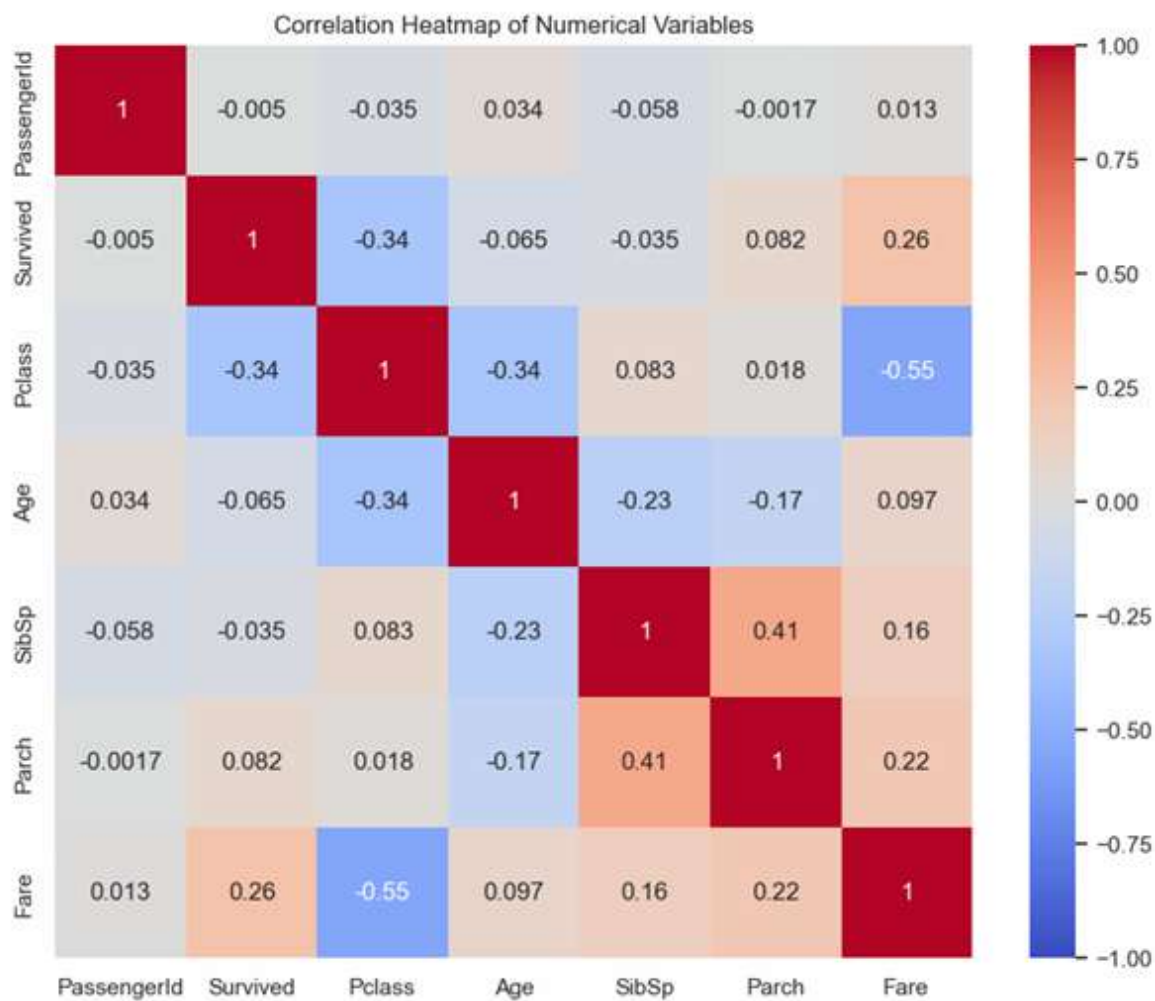




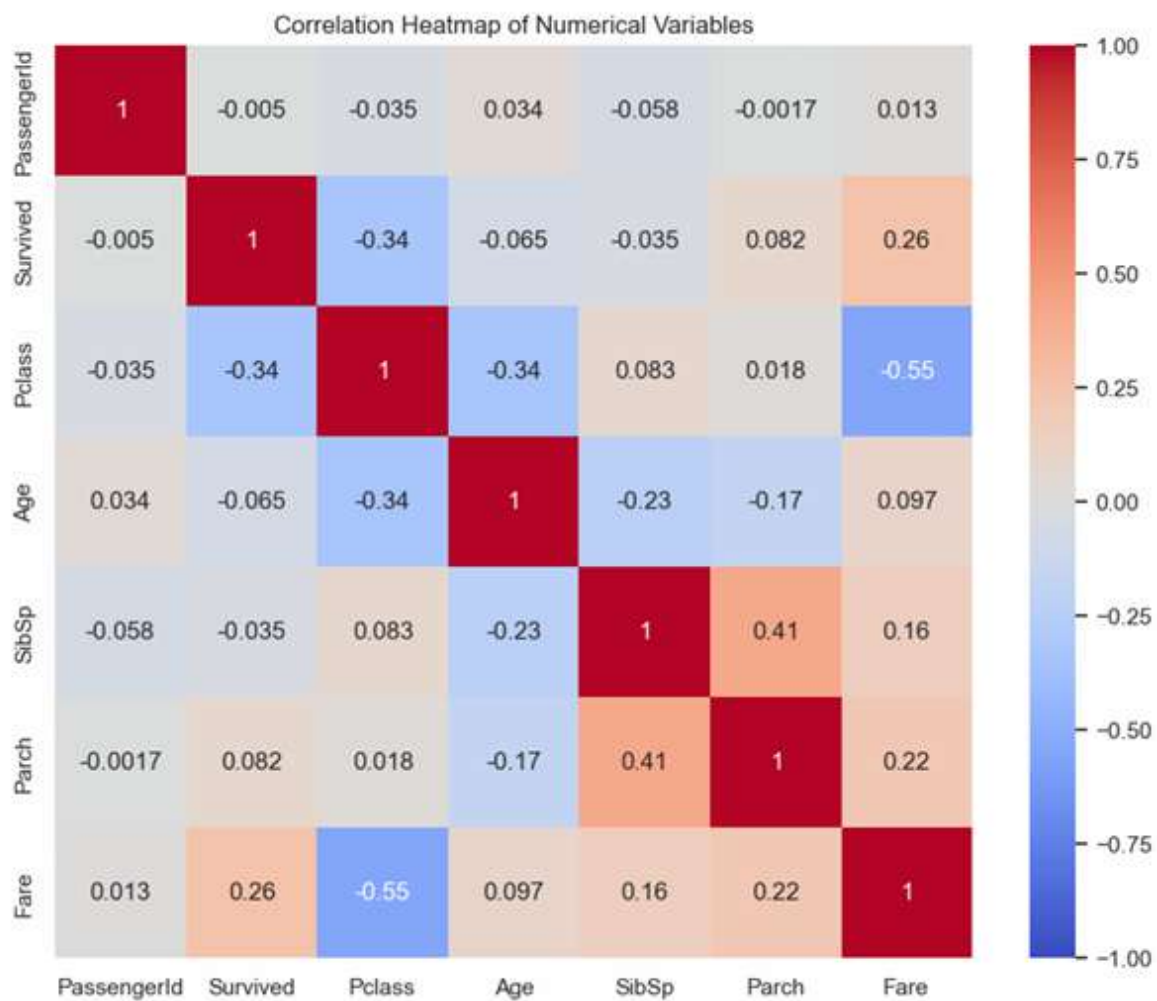
Observation: First-class passengers had the highest survival rate (62.9%).



Observation: Females had a significantly higher survival rate (74.2%) compared to males (18.9%).



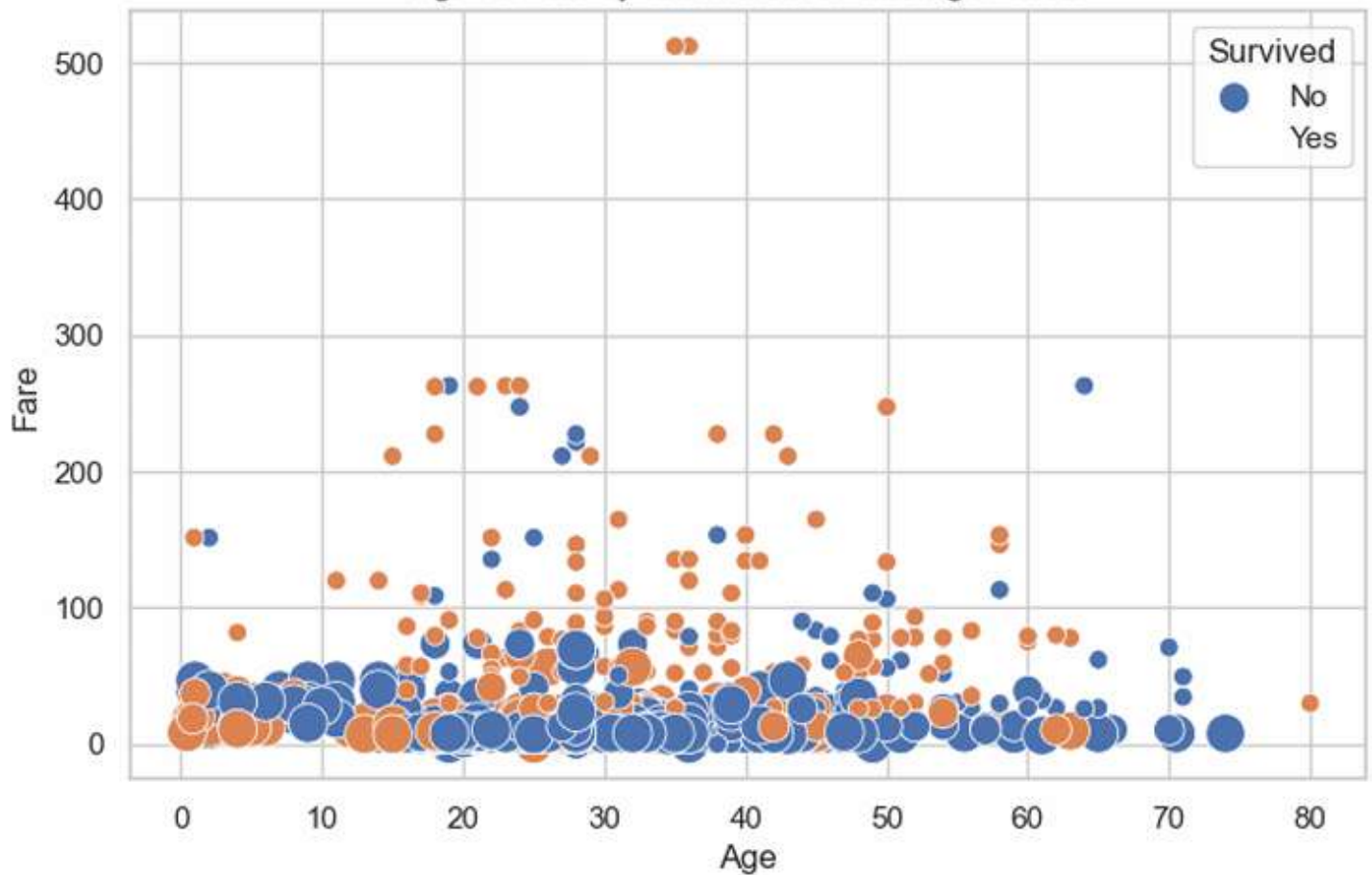
Heatmap shows moderate negative Pclass-Fare correlation (-0.55). Survived has weak c orrelations, strongest with Pclass (-0.34). No multicollinearity evident..



Heatmap shows moderate negative Pclass-Fare correlation (-0.55). Survived has weak c orrelations, strongest with Pclass (-0.34). No multicollinearity evident..

Task 5_ Exploratory_ Data _Analysis_ (EDA)

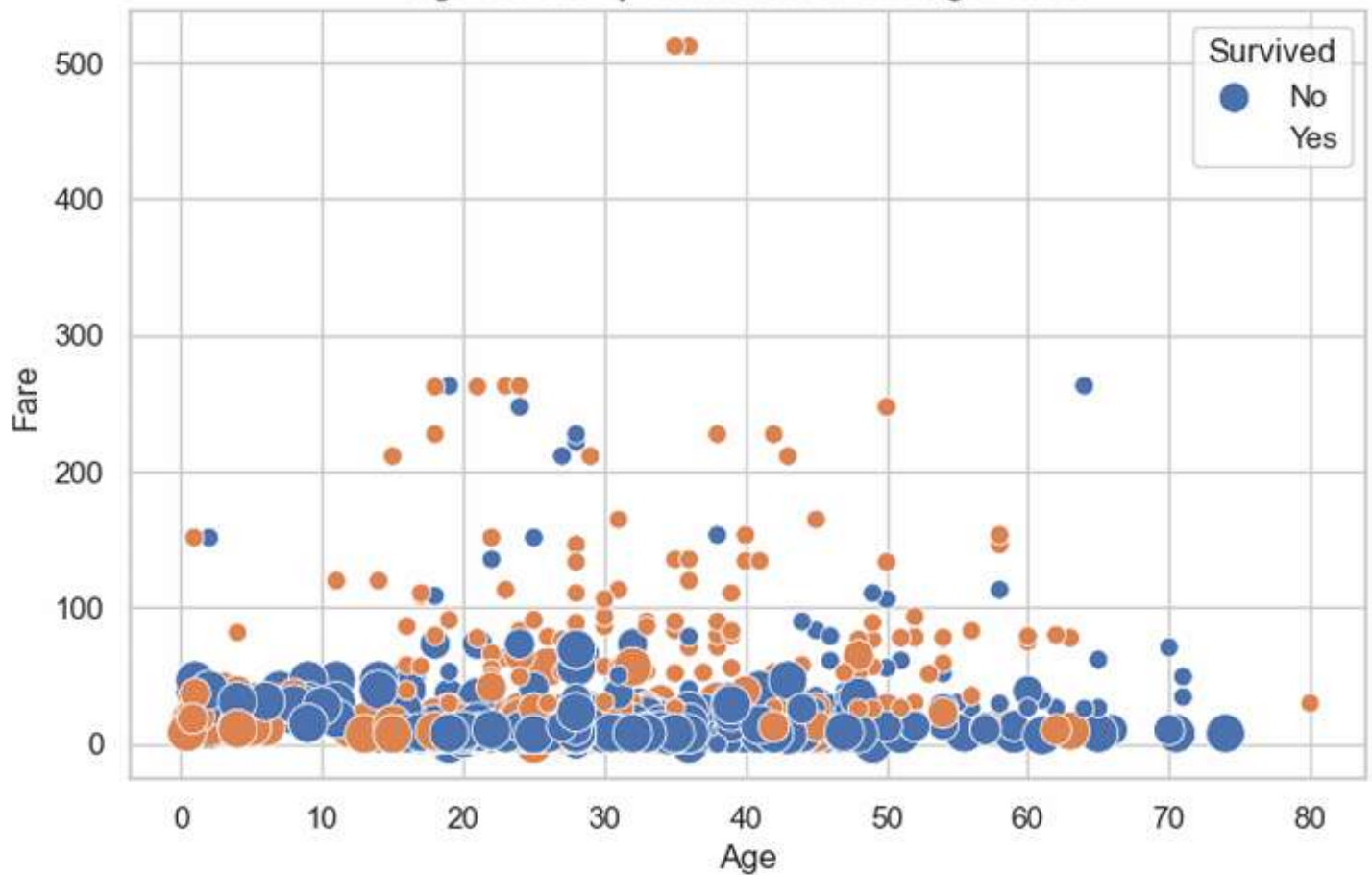
Age vs Fare by Survival and Passenger Class



Observation: Higher fares are associated with first-class passengers (smaller Pclass values) and higher survival rates.

Task 5_ Exploratory_ Data _Analysis_ (EDA)

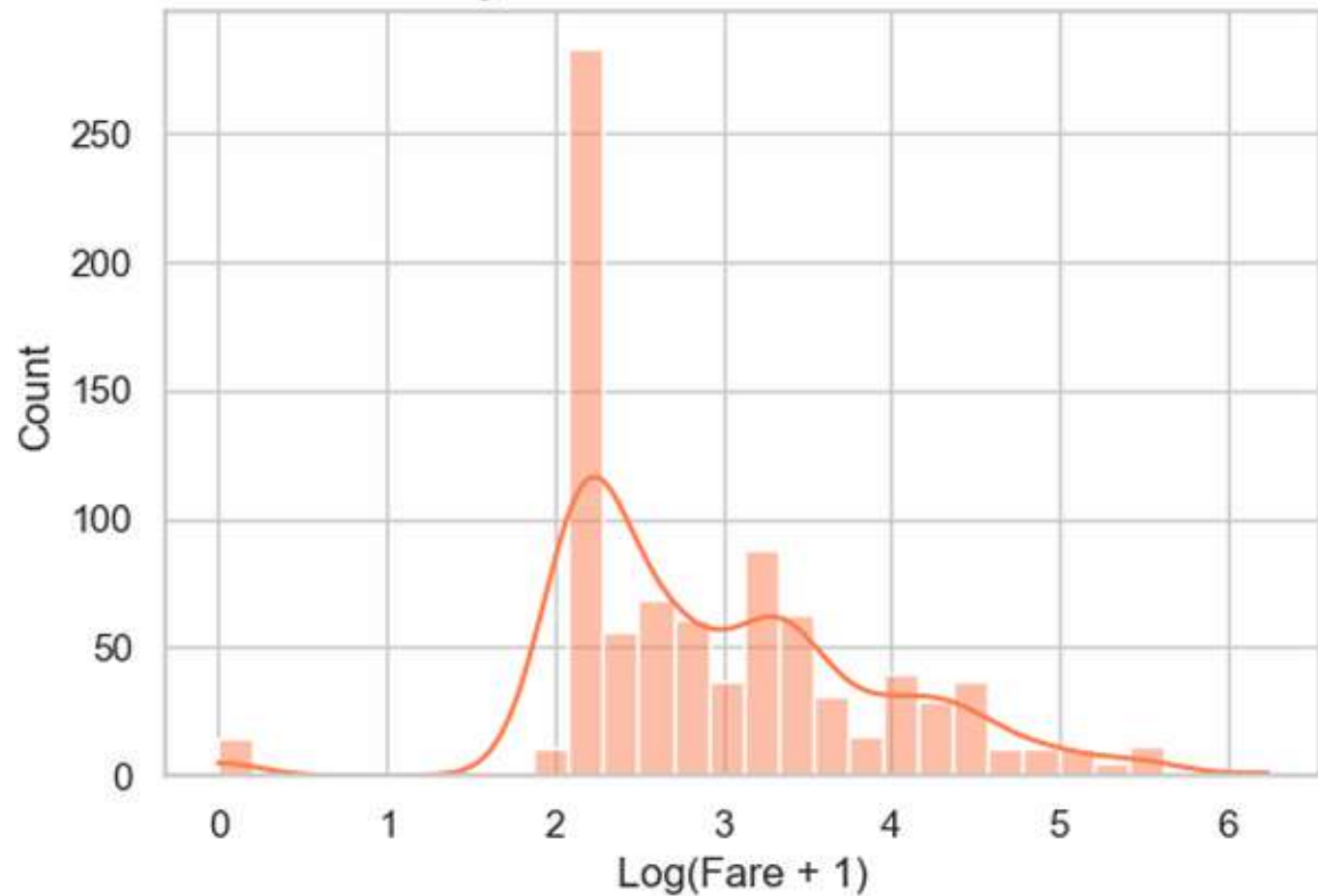
Age vs Fare by Survival and Passenger Class



Observation: Higher fares are associated with first-class passengers (smaller Pclass values) and higher survival rates.

Task 5_ Exploratory_ Data _Analysis_ (EDA)

Log-Transformed Fare Distribution



Observation: The log-transformed fare distribution is more symmetric than the original, reducing the impact of extreme outliers.
