

# Titanic Dataset – Task 01 Final Report

**Internship:** Prodigy Infotech – Data Science

## 1. Missing Values Analysis

The Age column contains 177 missing values. After removing these, 714 records were used for analysis.

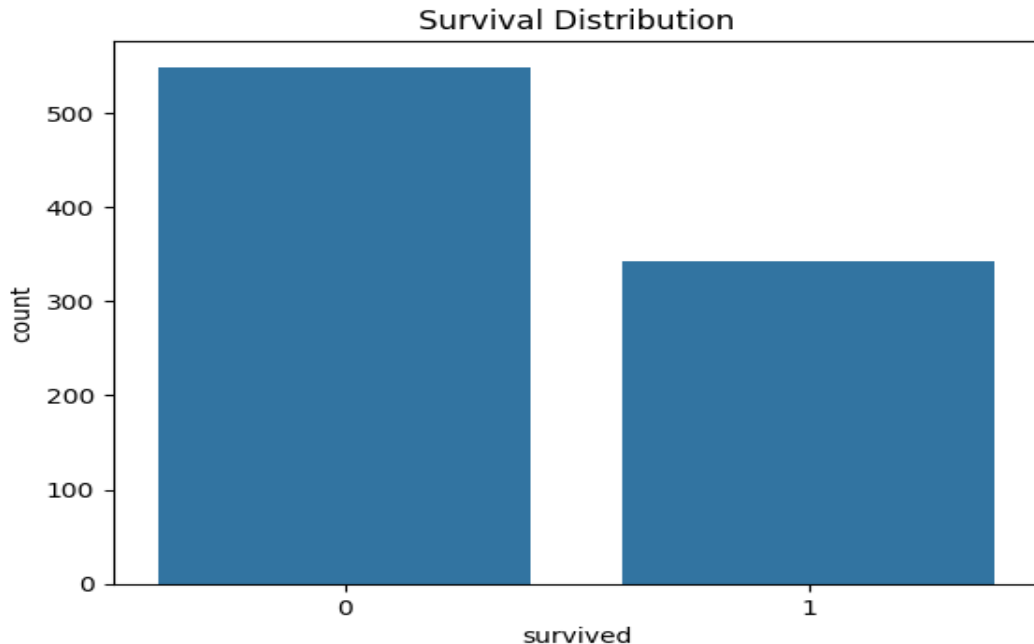
## 2. Summary Statistics

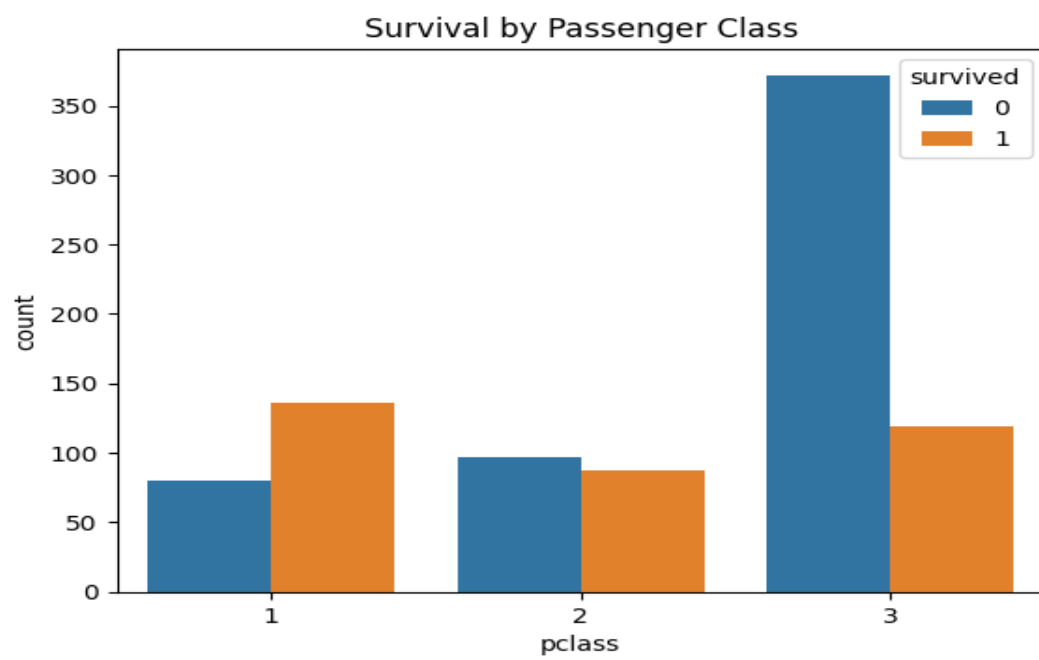
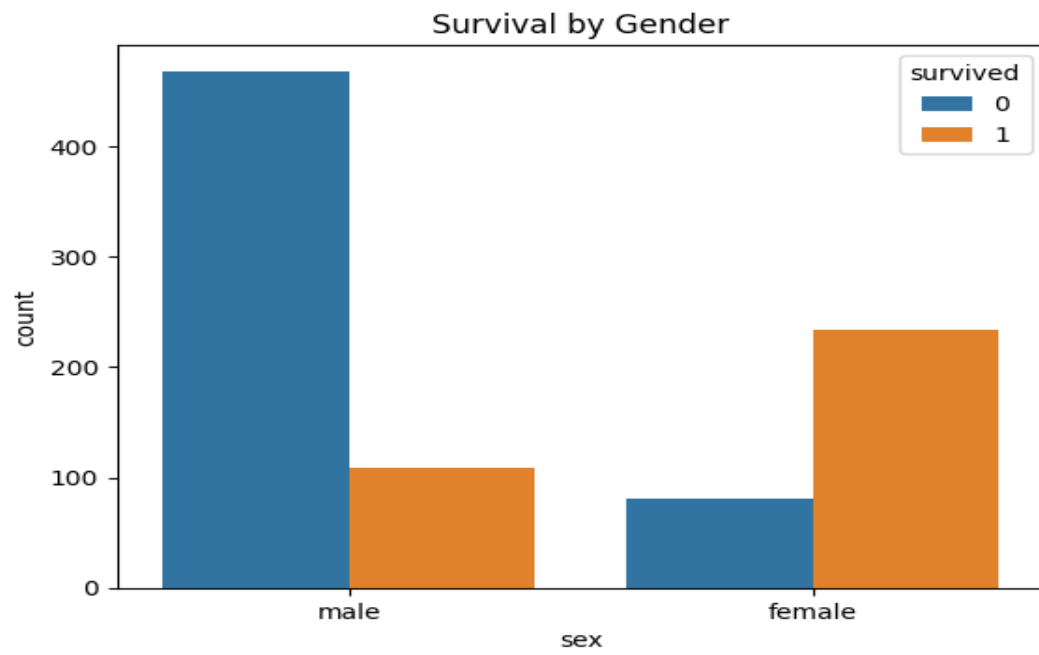
The average passenger age is 29.70 years. The average fare paid is 34.69. Approximately 40.6% of passengers survived.

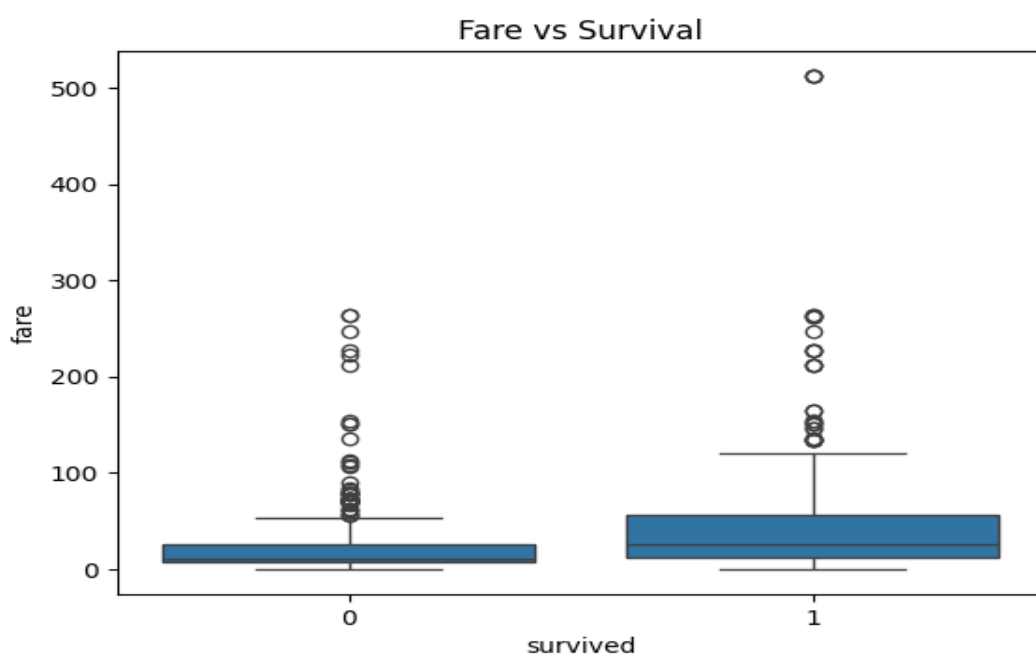
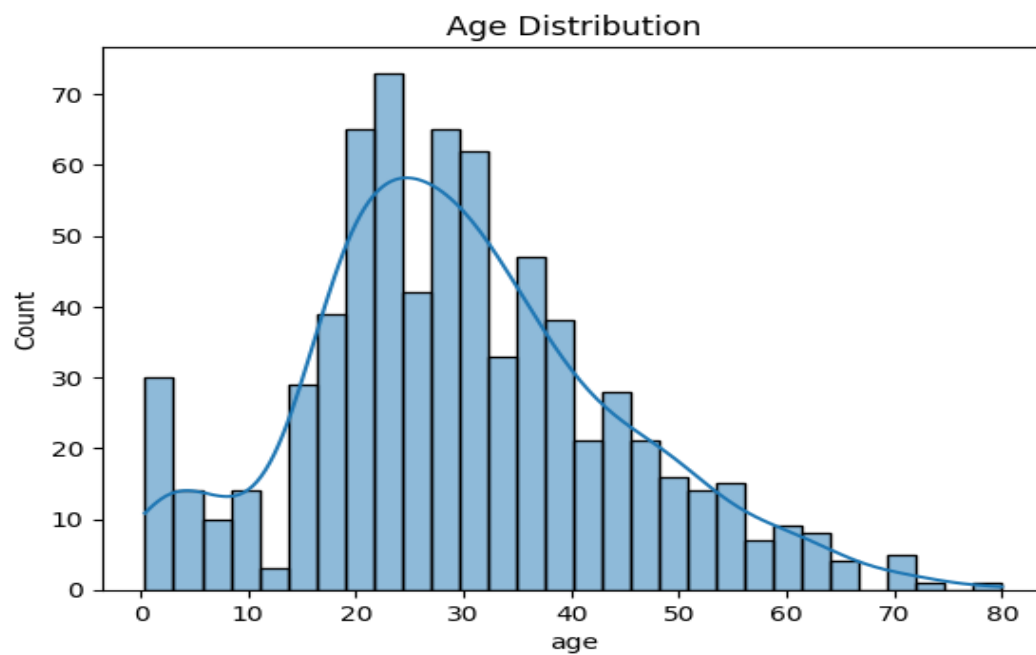
## 3. Correlation Analysis

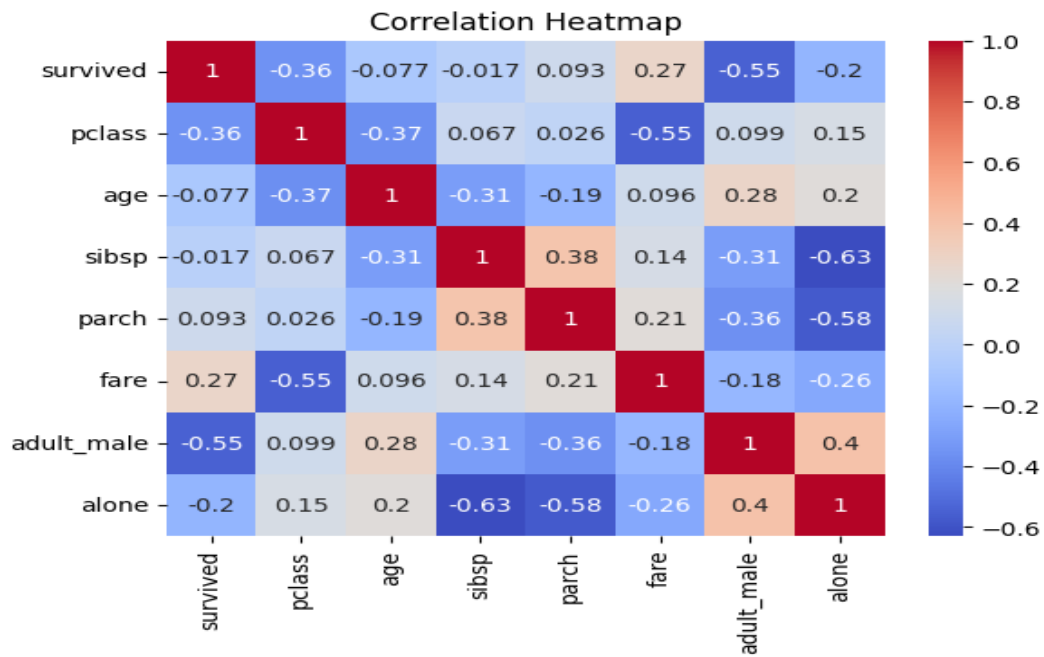
Survival has a negative correlation with passenger class (-0.36) and a positive correlation with fare (0.27). Age shows a weak correlation with survival (-0.08).

## 4. Exploratory Data Analysis (EDA) Visualizations









## Conclusion

The analysis shows that passenger class and fare significantly influenced survival outcomes, while age had minimal impact. These findings support further predictive modeling tasks.