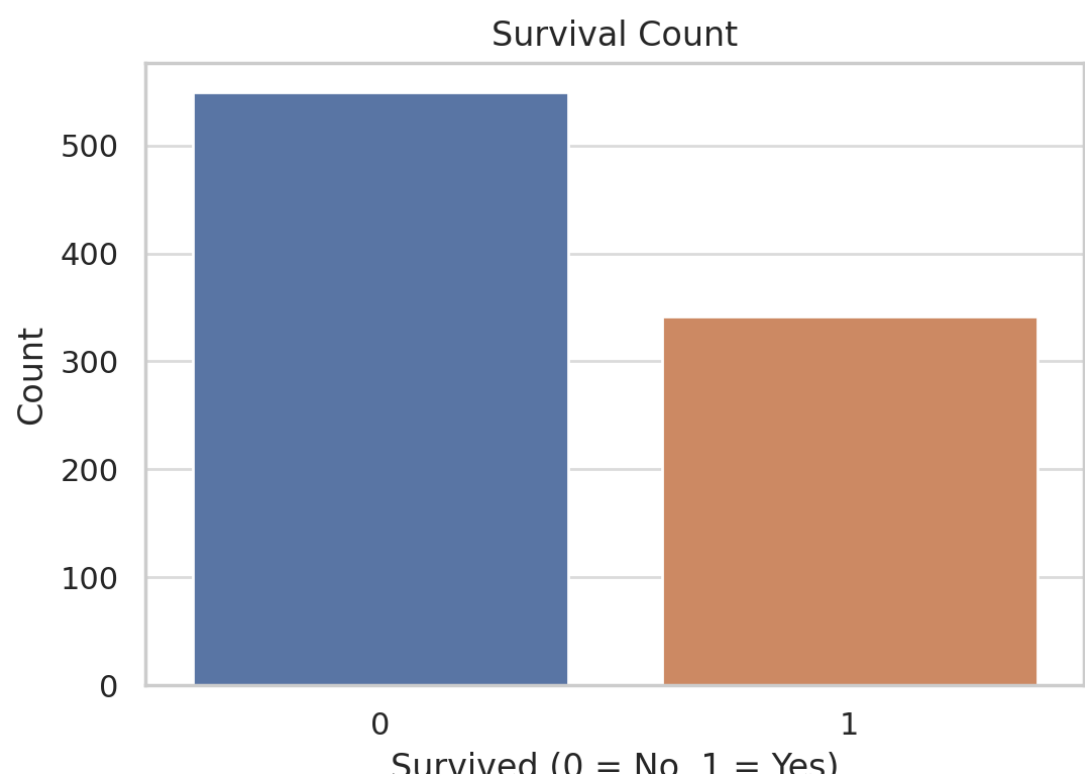# Titanic Dataset Analysis Report

1. Introduction

This report presents an exploratory data analysis of the Titanic dataset. It includes insights on demographics, survival distribution, and key factors affecting survival chances.
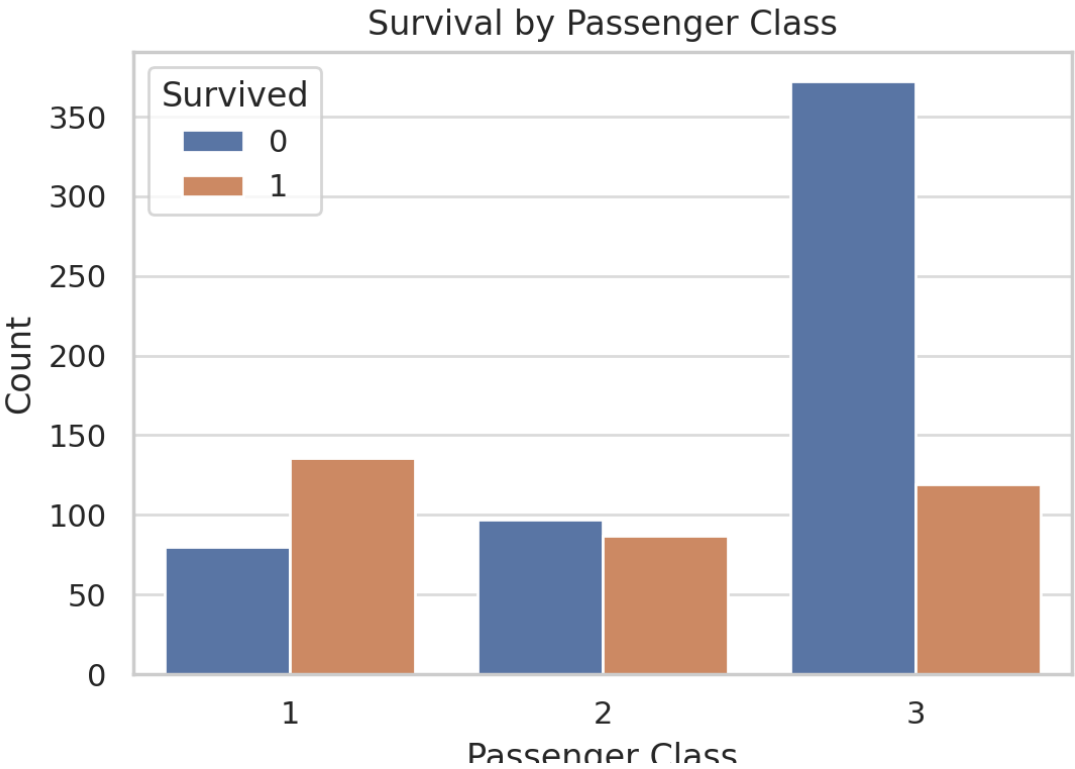
2. Dataset Overview

The dataset includes 891 passengers with attributes such as age, sex, class, fare, and survival status. Some columns have missing data, notably 'Age' and 'Cabin'.
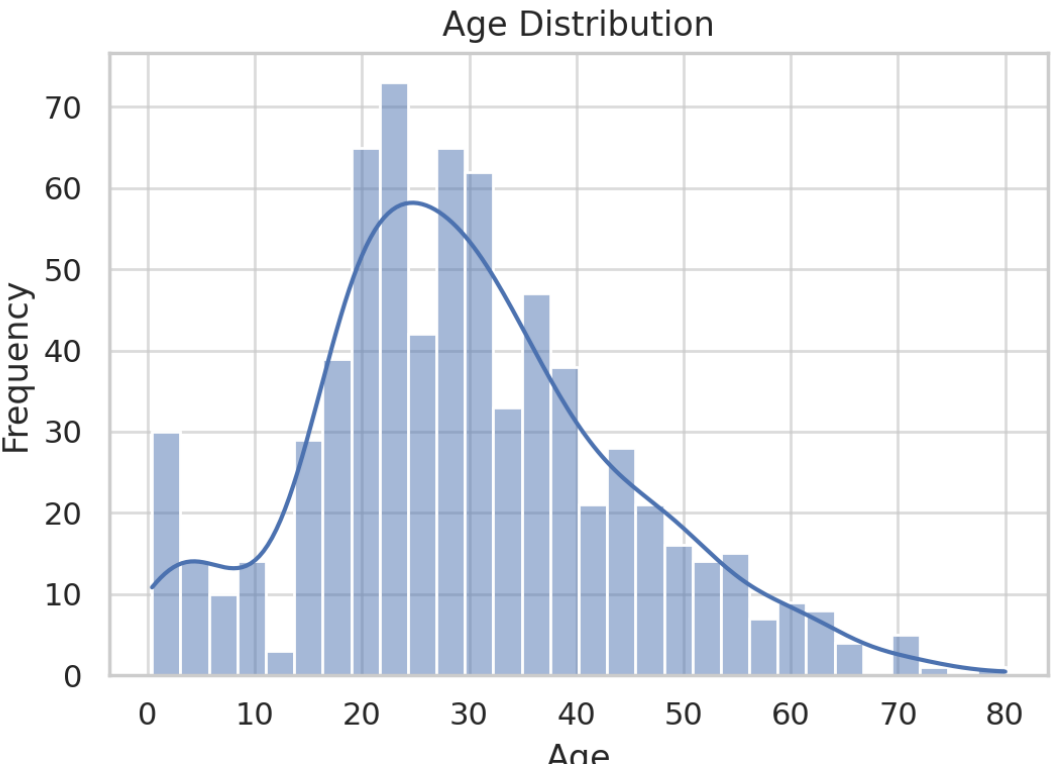
3.1 Survival Count

3.2 Survival by Passenger Class

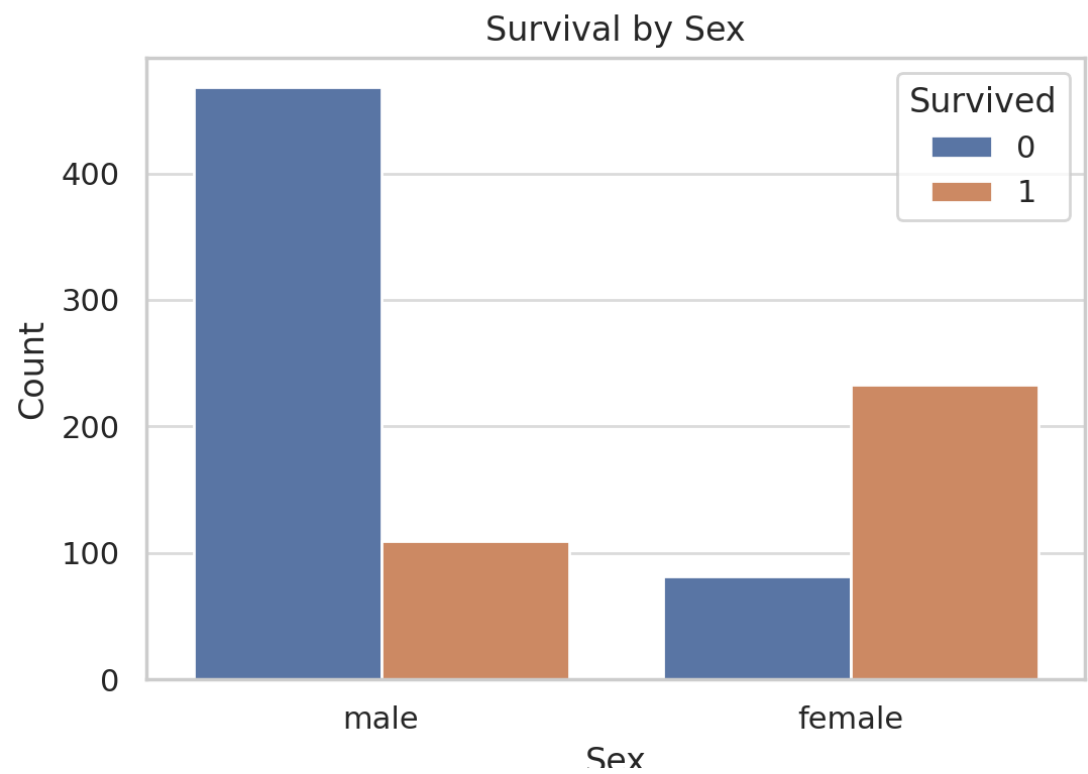## Survival by Passenger Class

3.3 Age Distribution

Age Distribution

Titanic Dataset Analysis Report

3.4 Survival by Sex

4. Conclusion

Key observations:

- Higher survival rate in 1st class passengers.

- Females had a significantly higher survival rate.

- Young children also had better survival chances.

This analysis highlights how socio-economic status and gender affected survival during the Titanic disaster.