

Titanic Data Analysis Report

1. Data Cleaning Summary

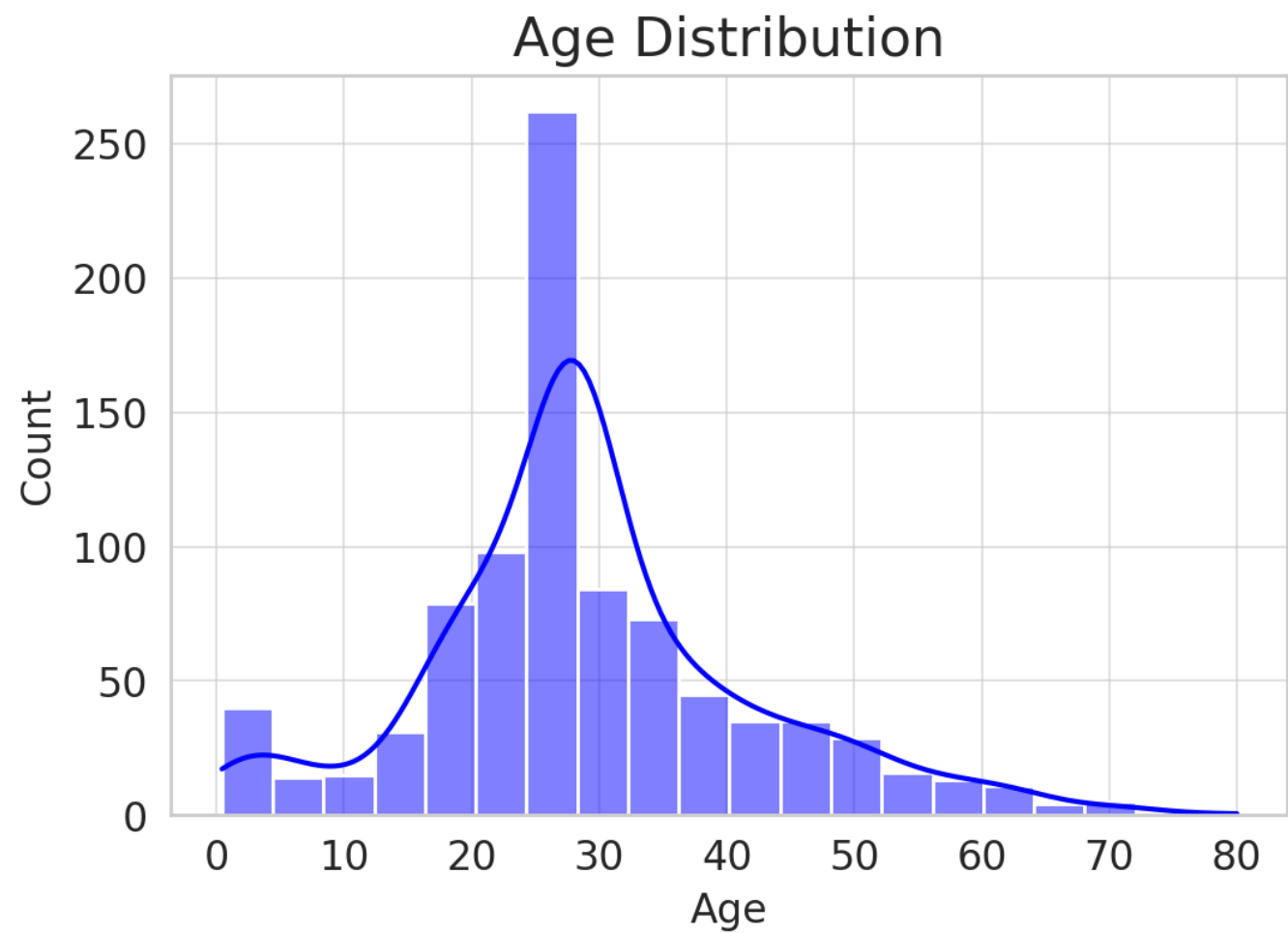
- Missing values in 'Age' were filled with the median.
- Missing values in 'Embarked' were filled with the mode.
- 'Cabin' column was dropped due to excessive missing values.
- No duplicate entries were found in the dataset.

2. Exploratory Data Analysis (EDA)

- Age distribution shows most passengers were between 20-40 years old.
- Fare distribution is right-skewed, indicating some passengers paid much higher prices.
- Women had a much higher survival rate across all classes.
- First-class passengers had the highest survival rate, third-class the lowest.
- Strong correlation between fare, class, and survival.

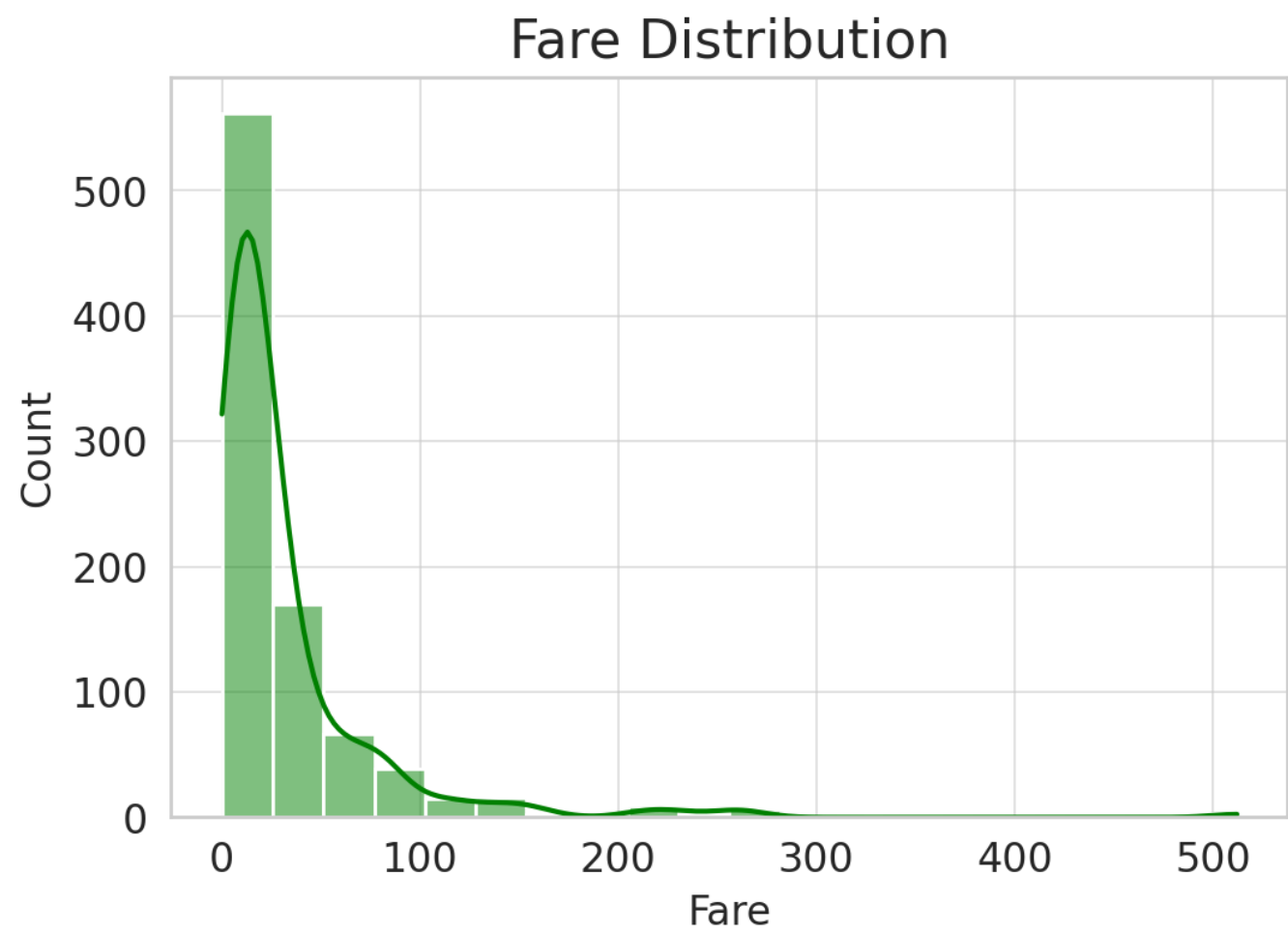
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Age Distribution



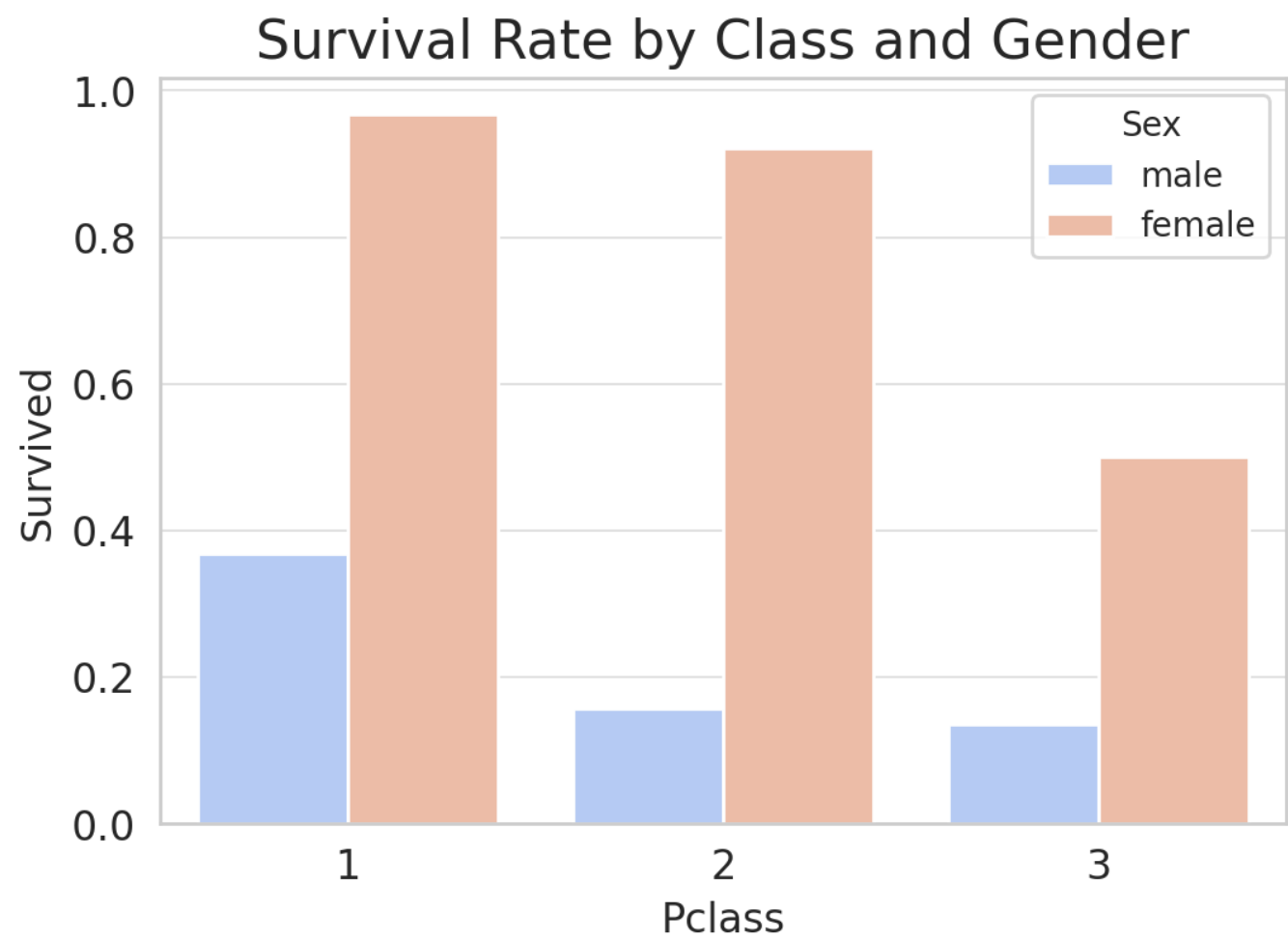
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Fare Distribution



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Survival Rate by Class and Gender



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Correlation Heatmap

