

# Titanic Survival EDA

A Data Science Project by Dr. Tania  
Islam

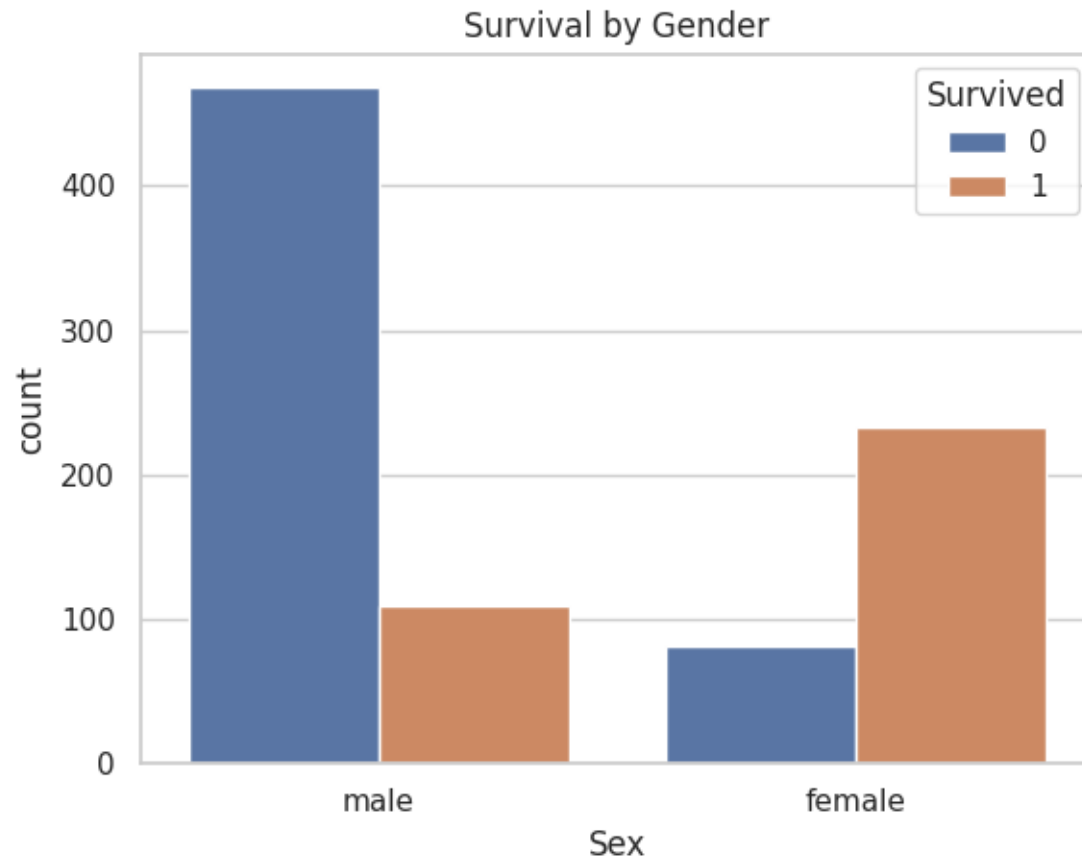
# Introduction

- • Goal: Understand factors affecting survival on the Titanic
- • Dataset: 891 passengers, 12 columns
- • Tools: Python, Pandas, Seaborn, Matplotlib
- • Source: Kaggle Titanic Dataset

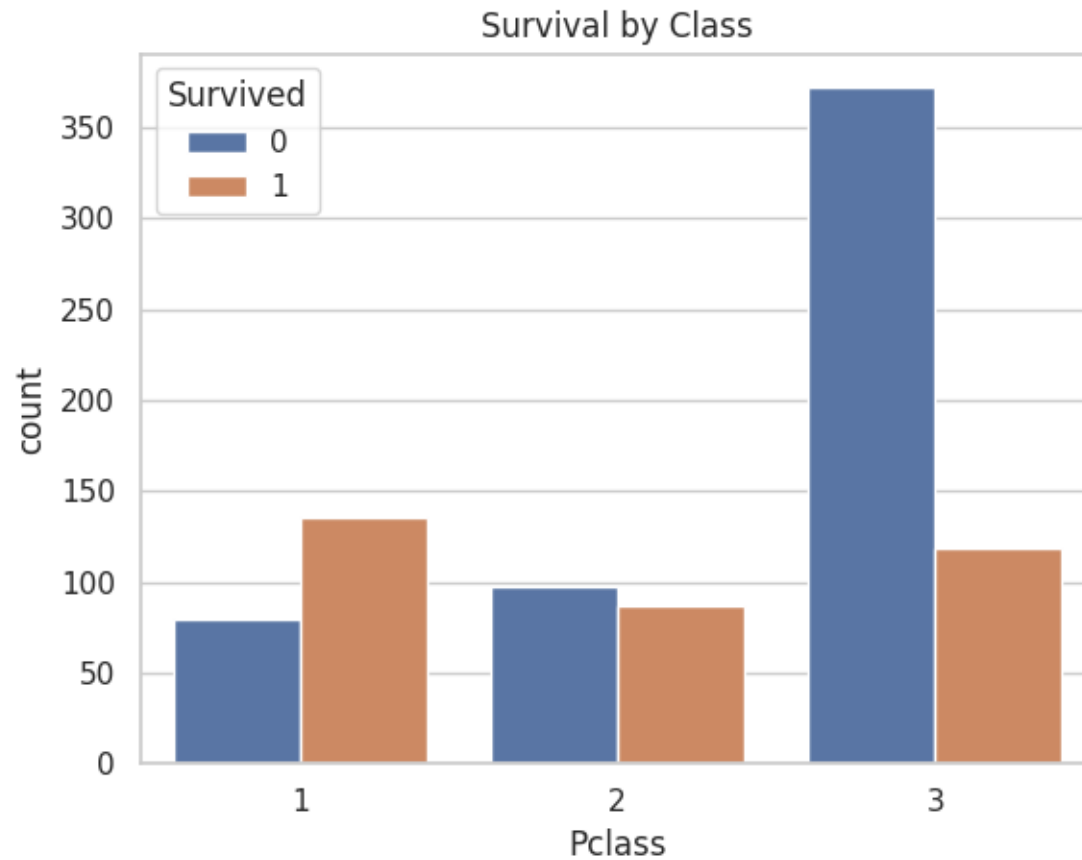
# Data Cleaning

- • Filled missing Age values with median
- • Filled missing Embarked values with mode
- • Dropped 'Cabin' column due to many missing values
- • Converted categorical data (e.g., Sex) for analysis

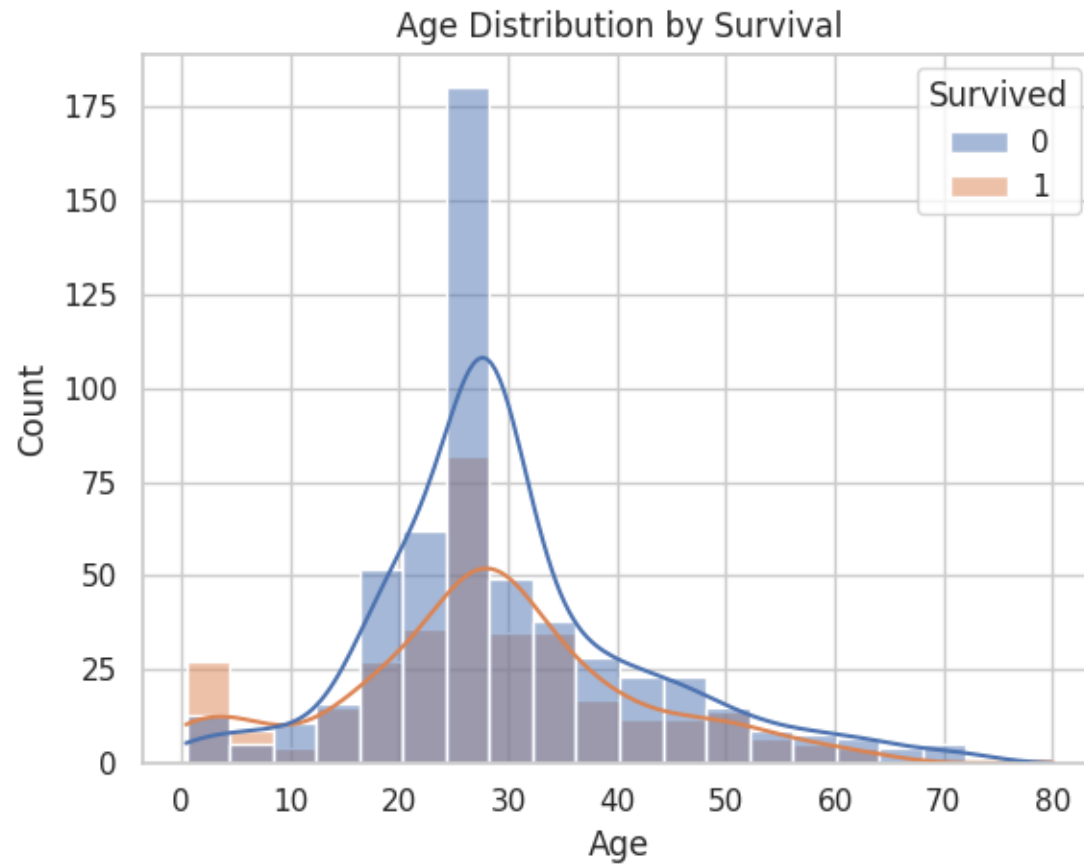
# Survival by Gender



# Survival by Class



# Age vs Survival



# Key Findings

- Females had ~74% survival rate; Males ~19%
- 1st Class passengers had better chances of survival (~62%)
- Children had a higher survival rate compared to adults
- Class and gender were critical survival factors

# Conclusion

- • Simple EDA reveals powerful patterns in survival
- • Gender, passenger class, and age influenced outcomes
- • Project demonstrates data cleaning, visualization, and insight communication