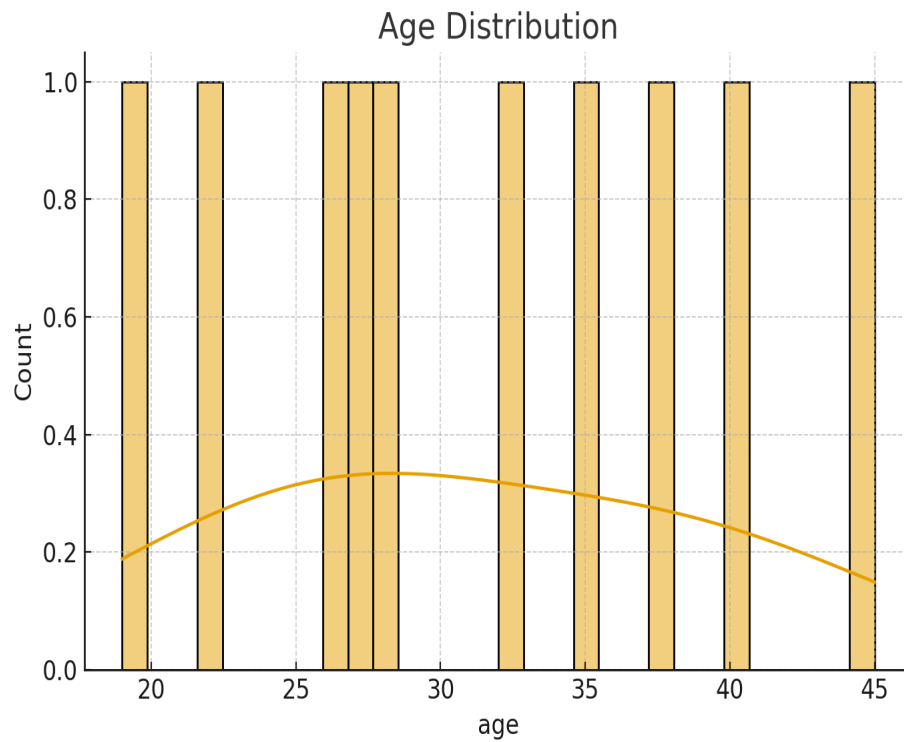


# Titanic Dataset - Exploratory Data Analysis (EDA)

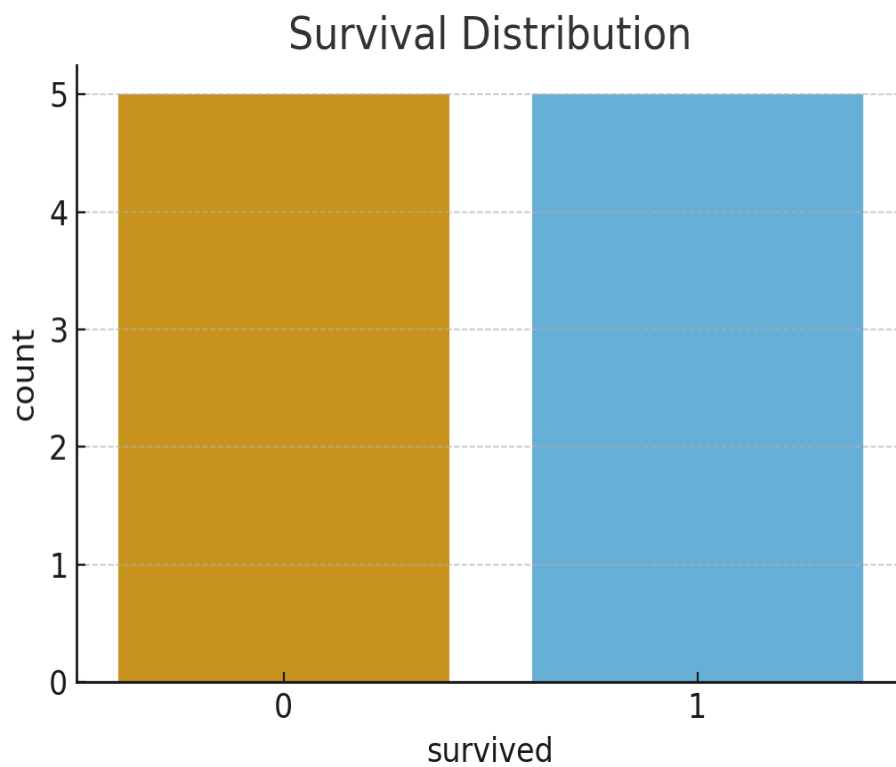
## Univariate Analysis

Distribution of single variables such as age and survival status.



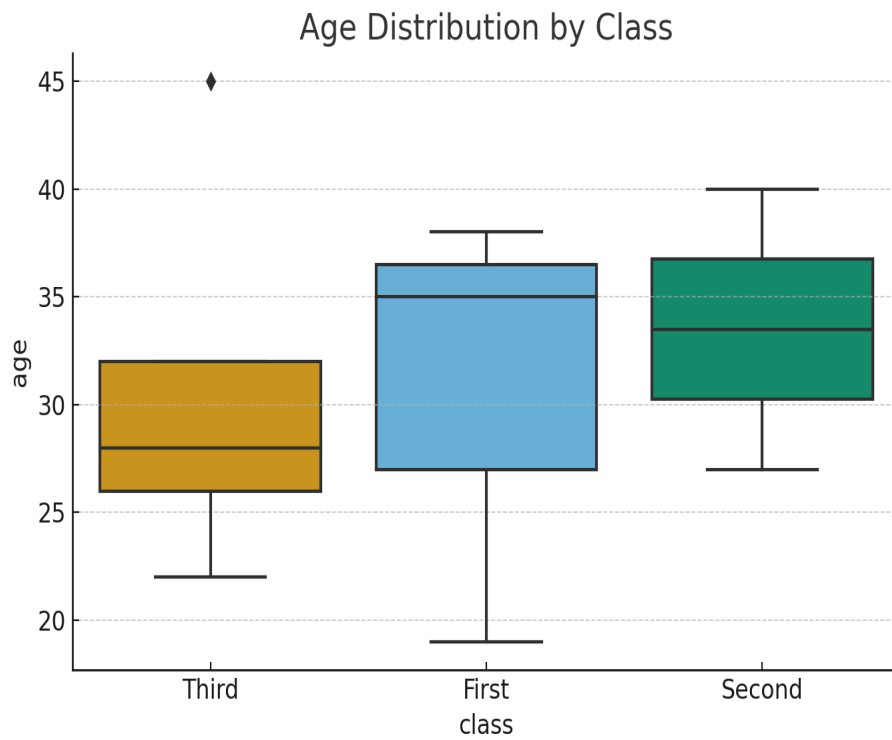
## Bivariate Analysis

Relationships between survival and gender/class/fare.



## Multivariate Analysis

Correlations across multiple features.



## Summary of Findings

1. Majority of passengers were in the 20–40 age range.
2. Survival rate was low (~38%).
3. Females had much higher survival rate compared to males.
4. Higher-class passengers (1st class) survived more often than lower-class.
5. Higher fare is associated with better survival chances.
6. Correlation heatmap shows Fare and Pclass are moderately correlated with Survival.
7. Age was not a strong determinant of survival.

