## **Titanic Dataset - Exploratory Data Analysis (EDA)**

Rows: 891 | Survivors: 342 (38.38%)

## **Key Observations:**

Dataset rows: 891, columns: 12Total survivors: 342 (38.38%)

- Missing values: Age=177, Cabin=687, Embarked=2
- Survival rate is higher for females than males (see survival\_by\_sex.png).
- Higher passenger class is associated with higher survival rate (see survival\_by\_pclass.png).
- Age distribution is right-skewed; fare is heavily right-skewed with outliers.
- Recommend imputing Age (median per Pclass) and feature-engineering (title, family\_size).

















