Observations:

- The dataset has 891 rows and 12 columns.
- Columns Age, Cabin, and Embarked have missing values.
- Age has some missing data (~177 missing values).
- Fare values are highly spread out (min = 0, max = 512).
- Around 550 passengers did not survive, and about
 340 survived.
- Most passengers belonged to **3rd class** (Pclass = 3).
- Age distribution is slightly right-skewed most passengers are between 20-40 years old.
- There are outliers in Fare few passengers paid very high fares.
- Females had a much higher survival rate than males.
- 1st Class passengers had highest survival rates, followed by 2nd class.
- Younger passengers and passengers paying higher fares had better survival chances.
- Fare and Pclass are strongly negatively correlated (Higher class = Higher fare).
- Survived is positively correlated with Fare and negatively correlated with Pclass.
- No strong multicollinearity among features.