

Titanic Dataset EDA – Findings and Observations

- The dataset contains passenger information such as age, sex, class, fare, and survival status.
- Females had a significantly higher survival rate compared to males.
- Passengers in 1st class had better chances of survival than those in 2nd or 3rd class.
- Younger passengers tended to survive at a slightly higher rate than older passengers.
- Higher fares were generally associated with higher survival probability.
- The correlation heatmap showed a moderate positive correlation between fare and survival, and a moderate negative correlation between passenger class number and survival.
- Pairplot analysis revealed visible separation between survivors and non-survivors in terms of age and fare.
- Boxplots indicated that extreme fare values were more common among survivors, especially in 1st class.