Titanic Dataset – Exploratory Data Analysis Report

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Summary of Findings:

- The dataset contains information on Titanic passengers such as age, fare, passenger class, and survival s
- Several columns (such as Age and Cabin) contain missing values, and approximately 38% of passengers
- The age distribution is skewed toward younger passengers, with most passengers between 20 and 40 yea
- Boxplot (Age vs Survived) shows survivors have a slightly lower median age, but survival occurs across all
- Scatterplot (Age vs Fare) shows no clear linear relationship between age and fare.
- Pairplot confirms higher fares and lower passenger class (1st and 2nd) are associated with higher survival
- Heatmap shows Fare is positively correlated with Survived, while Pclass is negatively correlated with Survived

Conclusion:

Passengers who paid higher fares and were in higher classes (1st/2nd) had a much higher chance of survival while age alone did not significantly influence the outcome.