Titanic Data Analysis - Summary Report

This report presents an exploratory data analysis (EDA) of the Titanic dataset, examining factors that influenced passenger survival, including gender, class, and age. Findings are summarized below:

Summary Statistics:

- Total passengers: 891
- Survived: 342 (38.38%)
- Males survived: 18.89%
- Females survived: 74.20%
- First-class survival rate: 62.96%
- Third-class survival rate: 24.24%

Key Findings:
- Women had a much higher survival rate than men.
- First-class passengers were more likely to survive compared to those in third class.
- Younger passengers, especially children, had higher survival rates.
- The overall survival rate was around 38%.

Conclusion:
This analysis confirms that gender, class, and age played a significant role in survival. Women, first-class passengers, and children had the highest survival probabilities, consistent with historical accounts of the Titanic disaster.