

# TITANIC DISASTER ANALYSIS

*Comprehensive Exploratory Data Analysis Report*

*Dataset: 891 passengers, 22 features*

*Overall Survival Rate: 38.4%*

## Executive Summary

This comprehensive analysis of the Titanic dataset reveals critical patterns in survival rates based on demographic and socio-economic factors. The overall survival rate was 38.4%, with significant disparities based on gender, passenger class, and age.

Key findings include a 55.3% survival advantage for women, a 38.7% difference between first and third class passengers, and a 54.0% survival rate for children.

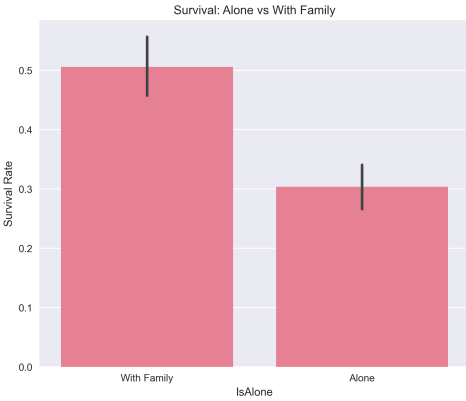
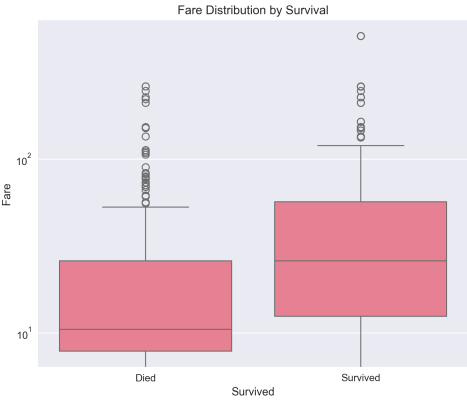
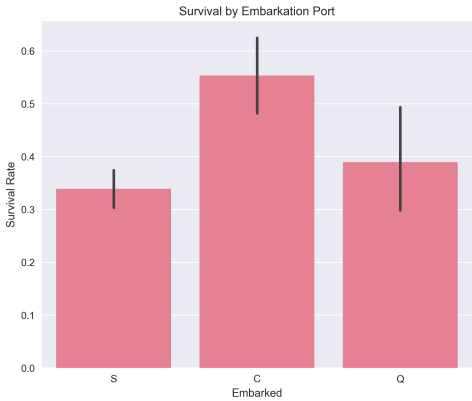
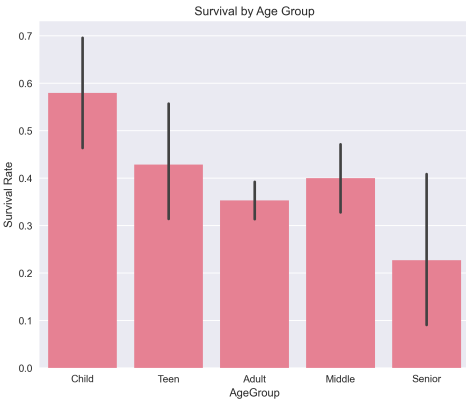
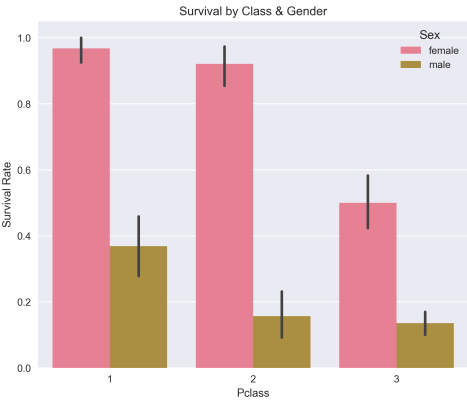
The analysis demonstrates clear evidence of the women and children first protocol, while also highlighting the impact of wealth and social status on survival outcomes.

## **Key Findings**

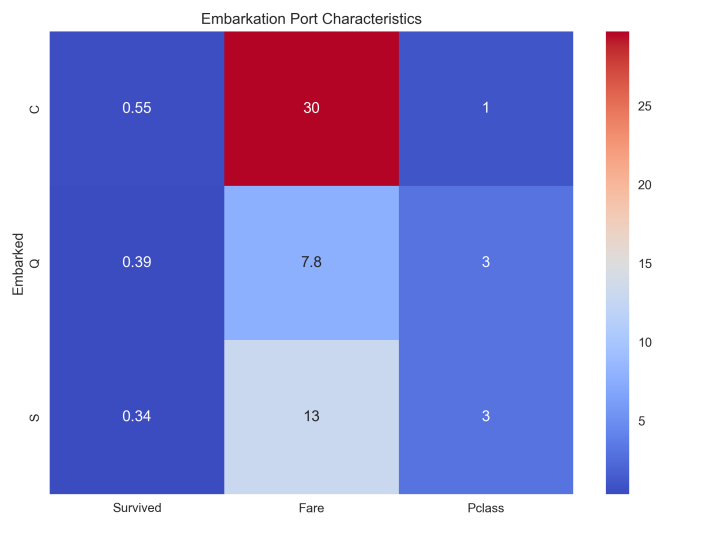
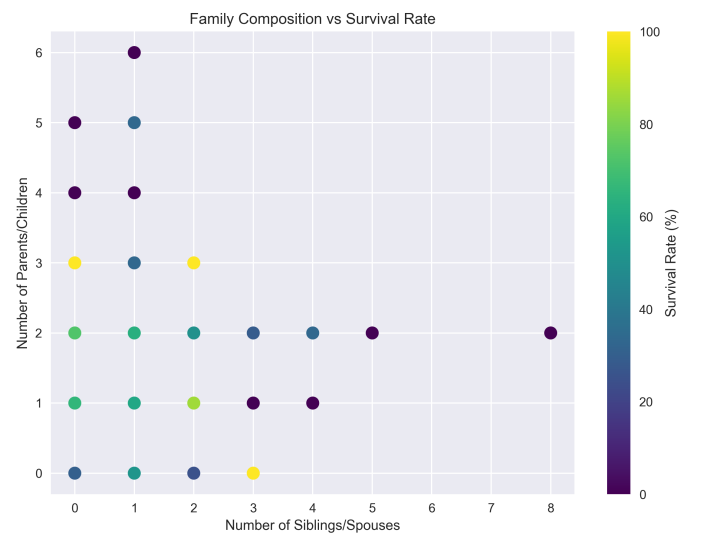
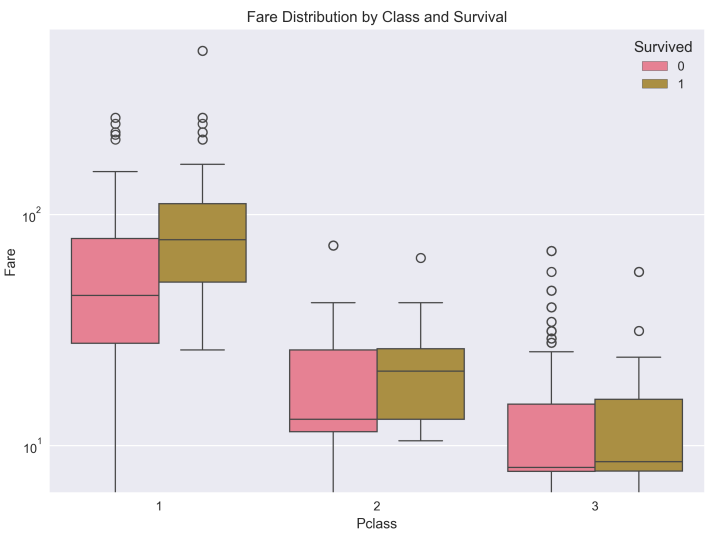
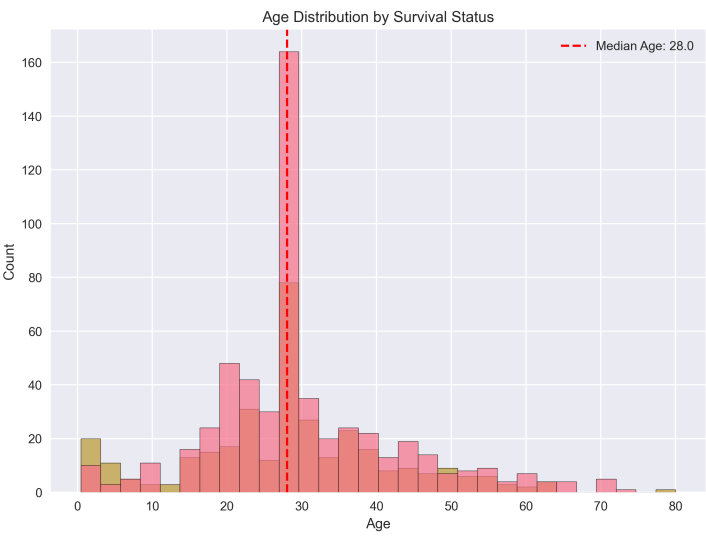
- Gender Disparity: Women had 74.2% survival vs 18.9% for men
- Class Impact: 1st Class: 63.0%, 2nd: 47.3%, 3rd: 24.2%
- Age Factors: Children: 54.0%, Elderly: 22.7%
- Family Effect: With family: 50.6%, Alone: 30.4%

# Survival Dashboard

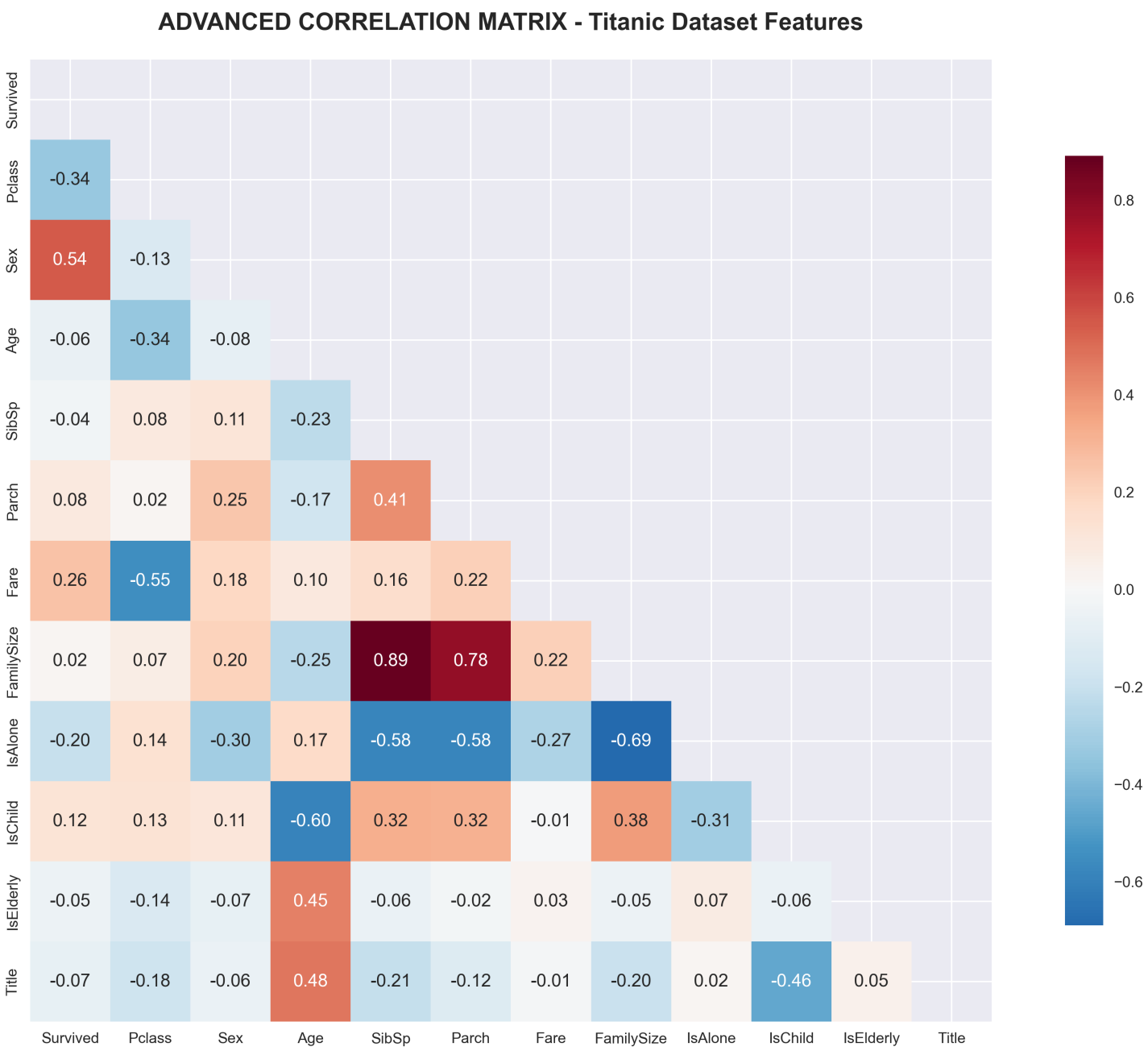
## TITANIC SURVIVAL ANALYSIS DASHBOARD



# Demographic Analysis



# Advanced Correlation



# Predictive Patterns

