Titanic Data Visualization Project Report

Introduction

This report summarizes the findings from the Titanic dataset, combining both training and test sets to explore various factors influencing survival and passenger characteristics.

Dataset Description

The dataset contains details such as Passenger Class (Pclass), Survival Status, Fare, Age, Sex, and more, compiled from the Titanic competition's train and test files.

Key Findings

- Pclass, Survived, Fare, and Age are heavily correlated - changes in one are related to changes in others.
- Median Age for both males and females ranged between 22–26 years.
- Female passengers had a higher number in the 40+ age group compared to males.
- Female passengers were more densely distributed across every class than males.
- Class 1 had more female passengers compared to males, though both genders were mostly found in Class 3.
- Older passengers (70+) were predominantly male.
- Class 1 was the most acquired class, suggesting the ship had many wealthy passengers.
- There were more male passengers than female passengers on the ship.
- The majority of passengers were aged 20–35 years.
- Analysis of age vs fare showed which age groups could afford different classes.