

# Titanic Data Visualization Project Report

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## 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.