

Titanic Insights and Lessons for Modern Safety Measures

- Analyzing Survival Patterns and Recommendations for Future Safety

-
- **Name** - Sumit Baviskar
 - **Date** - 11 Jan 2025



OVERVIEW

Objective:

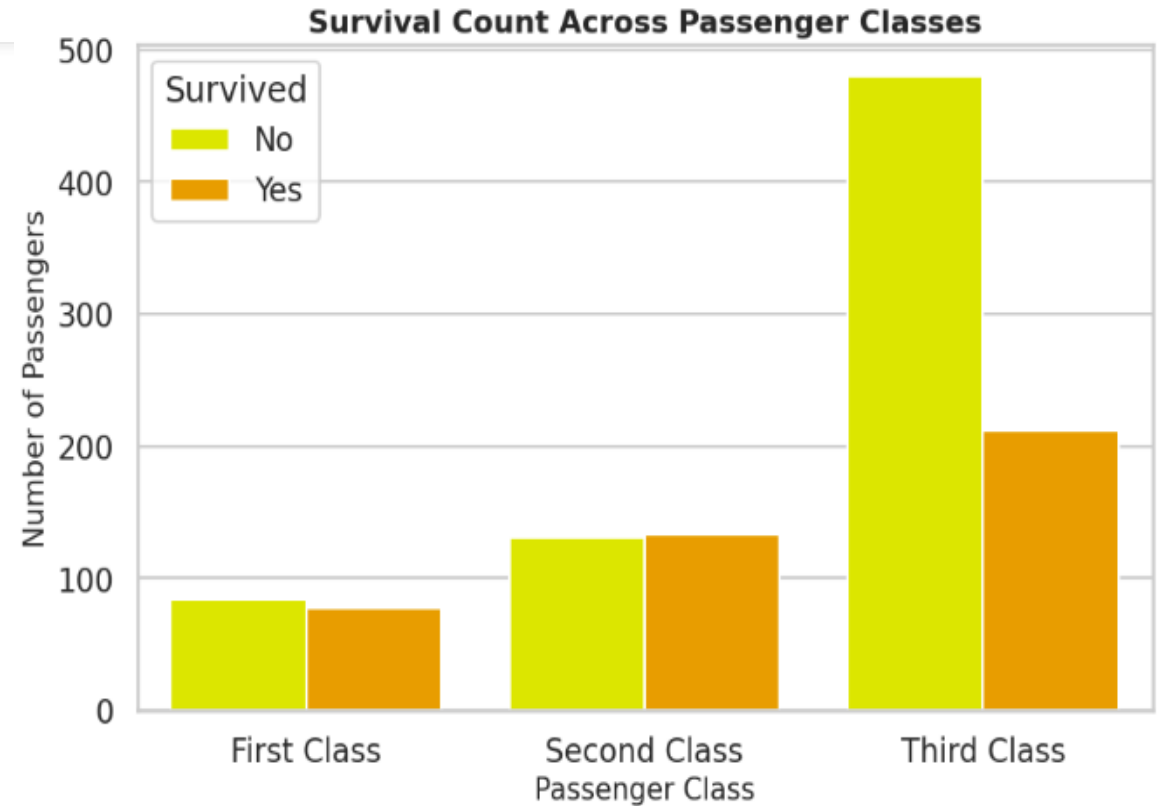
- Analyze passenger demographics, fare distribution, and survival trends.
- Provide actionable insights to improve modern safety measures.

Key Areas of Analysis:

- Gender and Survival Trends
- Class and Fare Impact on Survival
- Age-Based Survival Patterns
- Recommendations for Safety Improvements

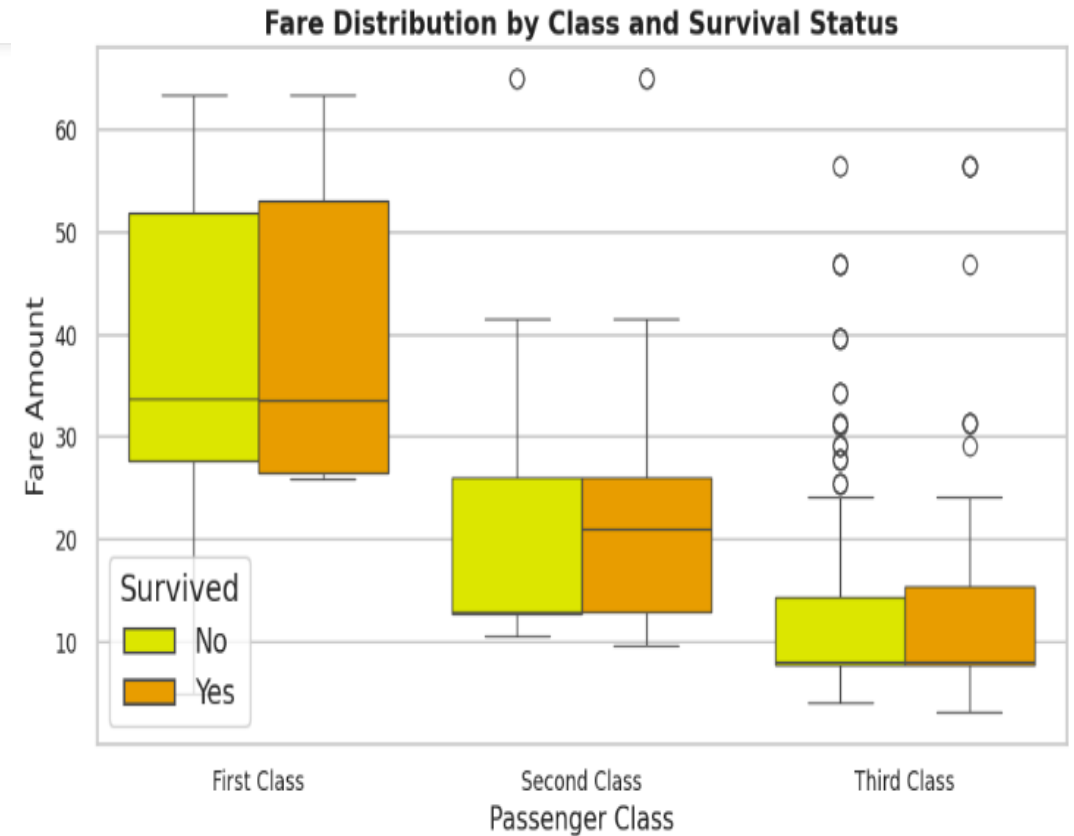
GENDER IMPACT ON SURVIVAL

- **Higher Female Survival Rates:** Across all classes, females had higher survival rates than males.
- **Class Variation:** First-class passengers of both genders had the highest survival rates, with survival disparity decreasing in lower classes.
- **Third-Class Male Risk:** Males in third class had the lowest survival rates and highest mortality risk.



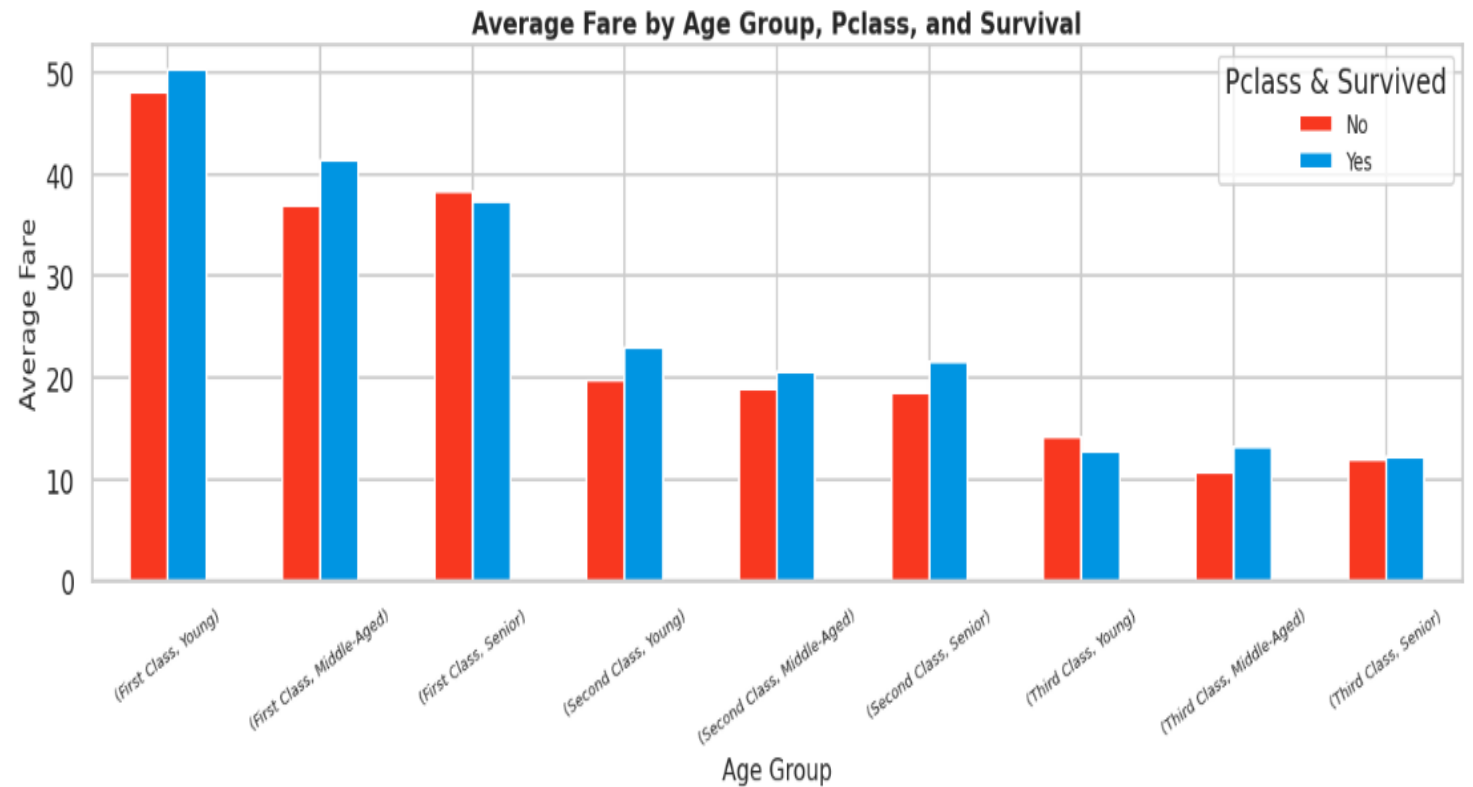
CLASS AND FARE DISTRIBUTION

- **Higher Fares in First Class:** First-class passengers consistently paid the highest fares, reflecting access to better amenities and safety resources.
- **Second and Third Class:** Moderate fares in second class, with third class showing the most affordable and consistent fares across age groups.
- **Survivors vs. Non-Survivors:** Survivors in all classes tended to pay slightly higher fares on average than non-survivors.



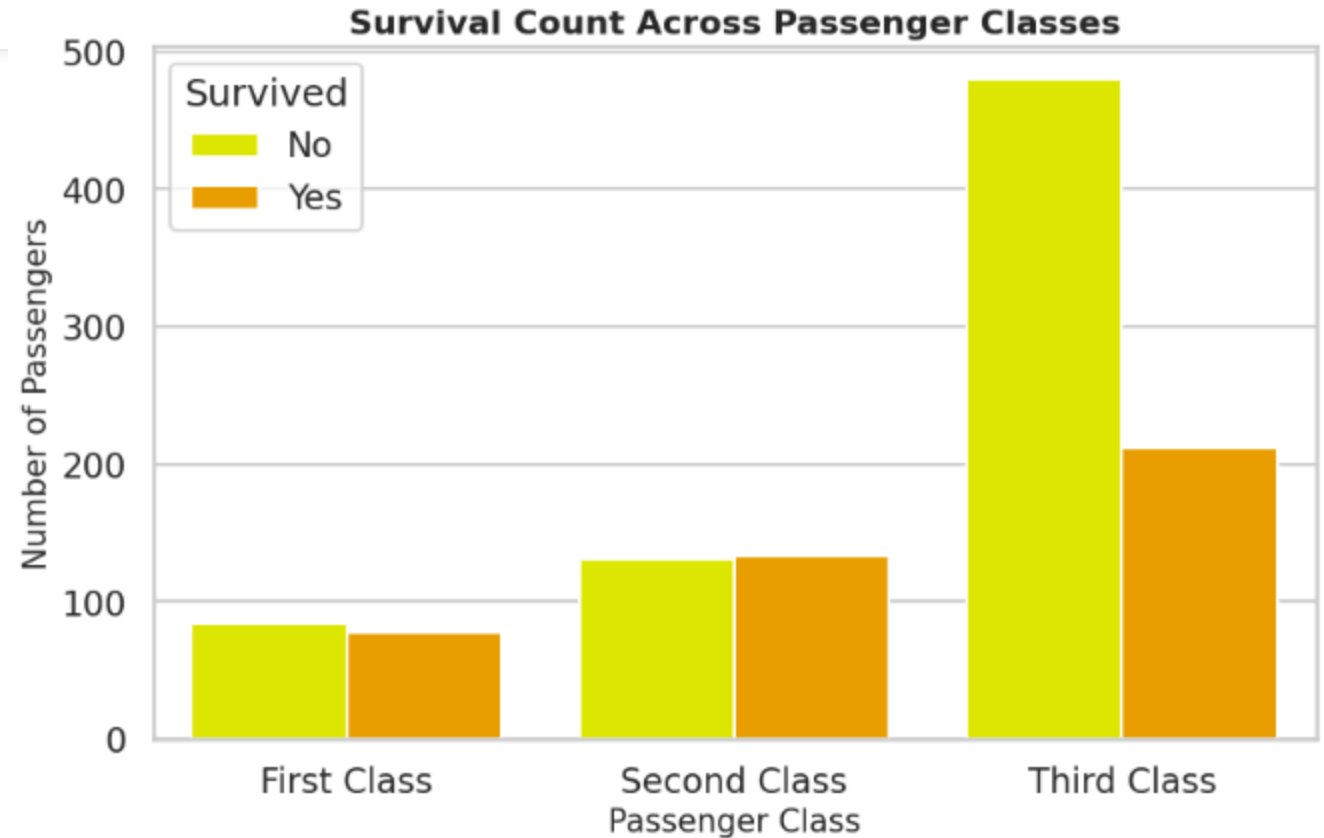
AGE IMPACT ON SURVIVAL

- **Younger Passengers:** Children had higher survival rates compared to middle-aged and senior passengers.
- **Age Difference in Survival:** Survivors across all age groups were slightly younger than non-survivors.
- **Class-Specific Patterns:** Younger passengers in first class paid lower fares compared to seniors.



SOCIOECONOMIC INFLUENCE

- **First-Class Advantage:** Survival rate of 48% in first class compared to 30% in third class.
- **Class Inequality:** Third-class passengers faced the highest mortality, with 480 non-survivors.
- **Fares and Safety:** Higher-paying passengers had better access to lifeboats and evacuation routes.





RECOMMENDATIONS

Improved Safety Measures:

- **Equitable Evacuation Policies:** Ensure all passengers, regardless of class, have equal access to lifeboats and safety resources.
- **Enhanced Ship Design:** Balanced placement of lifeboats and evacuation routes to reduce class-based disparities.
- **Comprehensive Training:** Regular emergency preparedness drills for both crew and passengers to promote efficient and unbiased evacuation.
- **Data-Informed Planning:** Leverage historical data to optimize safety protocols for modern maritime transport.



CONCLUSION

Key Takeaways:

- The Titanic disaster underscores the importance of equitable safety measures.
- Gender, class, and age significantly influenced survival outcomes.
- Historical data serves as a critical tool for designing inclusive safety protocols.



Questions

Thank You!

Feel free to ask any questions or share your thoughts.