Exploratory Data Analysis – Titanic Dataset

- Objective: Understand survival patterns from the Titanic dataset.
- Dataset: 458 records
- Tools Used: Python, Pandas, Seaborn, Matplotlib
- Key Variables: Sex, Age, Pclass, Survived, Fare.

Insights from the Data

- Females had a significantly higher survival rate than males (93.8% vs 10.1%).
- 1st class passengers had the highest survival chances.
- Younger passengers were more likely to survive.
- Passengers in higher classes (e.g., 1st class) generally paid higher fares.
- Siblings/Spouses onboard (SibSp) slightly influenced survival probability.

Summary & Recommendations

✓ Focus Areas:

❑ - Improve survival support for lower-class passengers.

❑ - Ensure equitable rescue efforts across gender and class.

❑ - Investigate anomalies in ticket pricing and survival.

✓ Modeling Tips:

❑ - Sex, Pclass, and Fare are key features for predictive models.

Thank You

- Created by: Harsh Kumar Srivastav
- Tools: Python, Jupyter, Seaborn, Matplotlib
- GitHub: https://github.com/harsh154-hk
- Submission Date: 2/06/2025