

Task-02: Titanic Survival Analysis Dashboard

■ Project Overview

This project is part of my Data Science Internship with Prodigy InfoTech. The objective was to perform Exploratory Data Analysis (EDA) on the Titanic dataset and create an interactive Power BI Dashboard to uncover survival patterns.

■■ Tools & Technologies

- Power BI (Data Modeling, DAX, Visualizations)
- Titanic Dataset (CSV)
- Python (optional preprocessing with pandas, numpy, matplotlib, seaborn)

■ Dashboard Features

1. KPI Cards (Total Passengers, Total Survived, Average Age, Survival %)
2. Distribution Analysis (Age & Fare Histograms)
3. Categorical Analysis (Survival by Gender, Class)
4. Relationship Analysis (Family Size Impact)
5. Interactive Slicers (Embarked, Parch)

■ Key Insights

- Women survived at much higher rates compared to men.
- 1st Class passengers had the highest survival rate.
- Family size (Parch) influenced survival chances.

■ Learning Outcome

- Hands-on experience with Power BI dashboards
- Improved EDA & storytelling with data
- Designed interactive reports with slicers & KPIs

■■■ Developed as part of Task-02 | Data Science Internship @ Prodigy InfoTech