

Titanic Survival Prediction using Logistic Regression

What is this project?

I built a machine learning model that predicts if a person survived the Titanic or not based on details like their age, gender, and passenger class.

Type of Problem: Binary Classification (only 2 outputs — survived or not)

Algorithm Used: Logistic Regression

Tools and Libraries: Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn

Steps I followed:

1. Loaded the Titanic dataset
2. Cleaned missing values (age, cabin, etc.)
3. Converted text columns to numbers (like male/female)
4. Split data into training and testing
5. Trained a Logistic Regression model
6. Checked accuracy and results

What I learned: How to handle real messy data and use logistic regression for yes/no type predictions.