

Titanic Survival Prediction

Features of input data: ['PassengerId', 'Survived', 'Pclass', 'Name', 'Sex', 'Age', 'SibSp', 'Parch', 'Ticket', 'Fare', 'Cabin', 'Embarked']

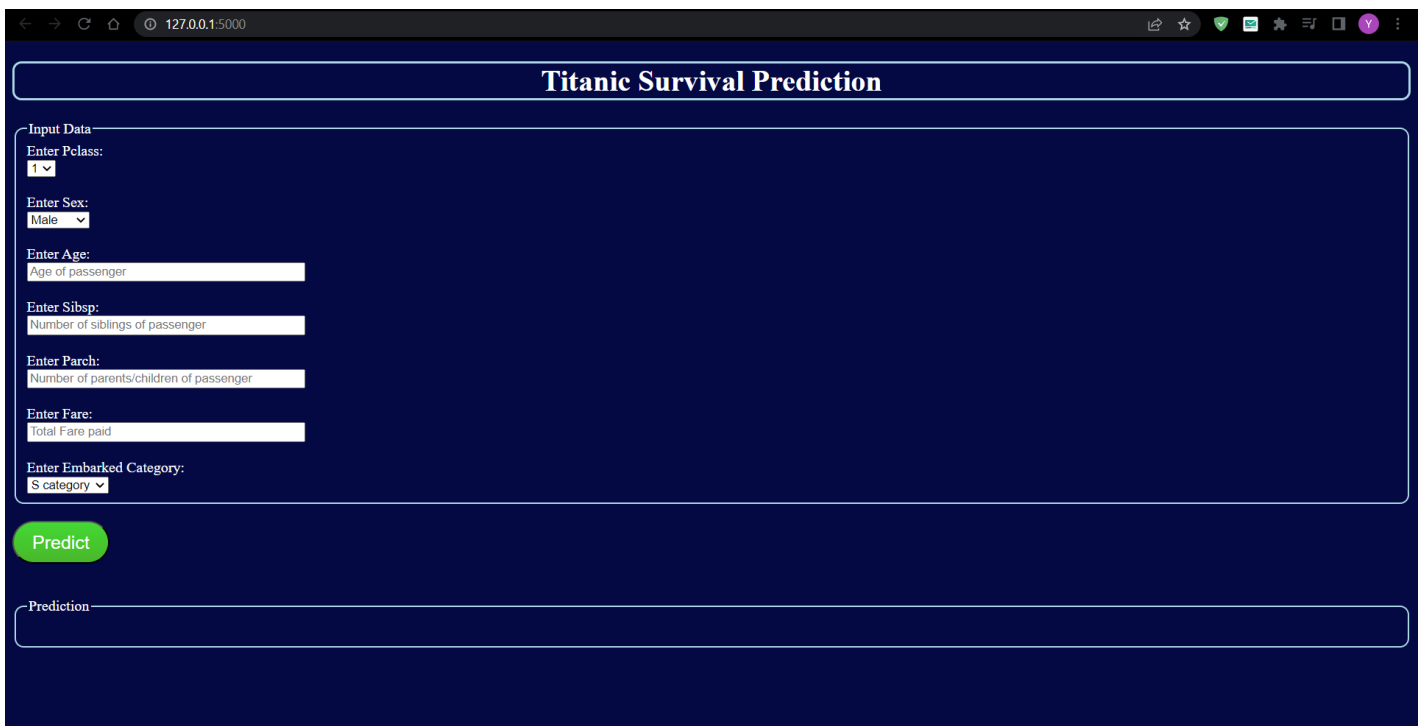
Features of X data: ['Age', 'SibSp', 'Parch', 'Fare', 'Pclass_1', 'Pclass_2', 'Pclass_3', 'Sex_female', 'Sex_male', 'Embarked_C', 'Embarked_Q', 'Embarked_S']

Features of y data: ['Survived']

Model used: XGBoostClassifier(objective='binary:logistic')

Best hyperparameters: {'subsample': 0.8, 'n_estimators': 2000, 'min_child_weight': 1, 'max_depth': 7, 'learning_rate': 0.2, 'gamma': 0.4, 'colsample_bytree': 0.8}

Accuracy: 80.33%



The screenshot shows a web browser window with the address bar displaying '127.0.0.1:5000'. The page has a dark blue background with a white border. At the top, there is a header section titled 'Titanic Survival Prediction'. Below the header, there is a form titled 'Input Data'. The form contains several input fields and dropdown menus: 'Enter Pclass:' with a dropdown menu showing '1', 'Enter Sex:' with a dropdown menu showing 'Male', 'Enter Age:' with a text input field containing 'Age of passenger', 'Enter Sibsp:' with a text input field containing 'Number of siblings of passenger', 'Enter Parch:' with a text input field containing 'Number of parents/children of passenger', 'Enter Fare:' with a text input field containing 'Total Fare paid', and 'Enter Embarked Category:' with a dropdown menu showing 'S category'. Below the input fields, there is a green button labeled 'Predict'. At the bottom of the form, there is a section titled 'Prediction' with a large empty text area.

Fig 1: Flask app- Index page

The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5000". The page title is "Titanic Survival Prediction". The form contains the following input fields and values:

- Enter Pclass: 2
- Enter Sex: Male
- Enter Age: 40
- Enter Sibsp: 2
- Enter Parch: 2
- Enter Fare: 50
- Enter Embarked Category: Q category

A green "Predict" button is located below the input fields. The "Prediction" output field is currently empty.

Fig 2: Flask app- Input values entered

The screenshot shows the same web browser window, but the "Prediction" output field now displays the result: "The passenger will Die." The input fields remain the same as in the previous figure.

Fig 3: Flask app- Prediction displayed