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Steps of Deployment

1. model.py

```
import pandas as pd
from sklearn.preprocessing import StandardScaler
from sklearn.ensemble import RandomForestClassifier
from sklearn.model_selection import train_test_split
df = pd.read_csv("titanic.csv")
print(df.head())
X = df[["Pclass", "SibSp", "Parch", "Fare"]]
y = df["Survived"]
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.3, random_state=50)
sc = StandardScaler()
X_train = sc.fit_transform(X_train)
X_test = sc.transform(X_test)
classifier = RandomForestClassifier()
classifier.fit(X_train, y_train)
pickle.dump(classifier, open("model.pkl", "wb"))
```

2. app.py

```
import numpy as np
from flask import Flask, request, render_template
import pickle

app = Flask(__name__)
app.config['TEMPLATES_AUTO_RELOAD'] = False

model = pickle.load(open("model.pkl", "rb"))

@app.route('/')
def home():
    return render_template("index.html")

@app.route("/predict", methods=["POST"])
def predict():
    float_features = [float(x) for x in request.form.values()]
    features = [np.array(float_features)]
    prediction = model.predict(features)
    return render_template("index.html", prediction_text="Survived: {}".format(prediction))

if __name__ == "__main__":
    app.run(debug=True)
```

3. index.html

```
# README.md ×
             index.html
                            🐍 model.py 🗶
                                        💤 app.py 🗵
      <!DOCTYPE html>
      <html>
      <head>
           <title>Titanic Survival Prediction</title>
      </head>
      <body>
           <h1>Titanic Survival Prediction</h1>
          <form action = "/predict" method = "POST">
               <label for="Pclass">Pclass:</label>
               <input type="text" id="Pclass" name="Pclass"><br><br>
               <label for="SibSp">SibSp:</label>
               <input type="text" id="SibSp" name="SibSp"><br><br>
               <label for="Parch">Parch:</label>
               <input type="text" id="Parch" name="Parch"><br><br>
               <label for="Fare">Fare:</label>
               <input type="text" id="Fare" name="Fare"><br>><br>></pr>
               <input type="submit" value="Predict">
          </form>
          <br>
           {{ prediction_text }}
      </body>
      </html>
23
```