Flask Deployment on Web App

Name: Bhavya Jha

Batch Code: LISUM45

Submission date: May 27th, 2025

Submitted to: GitHub

Model Setup:

Loading the data:
iris = load_iris()
X, y = iris.data, iris.target

Training the data:
Splitting the data into training and testing sets
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)

# Instantiating a decision tree classifier
clf = DecisionTreeClassifier(random_state=42)

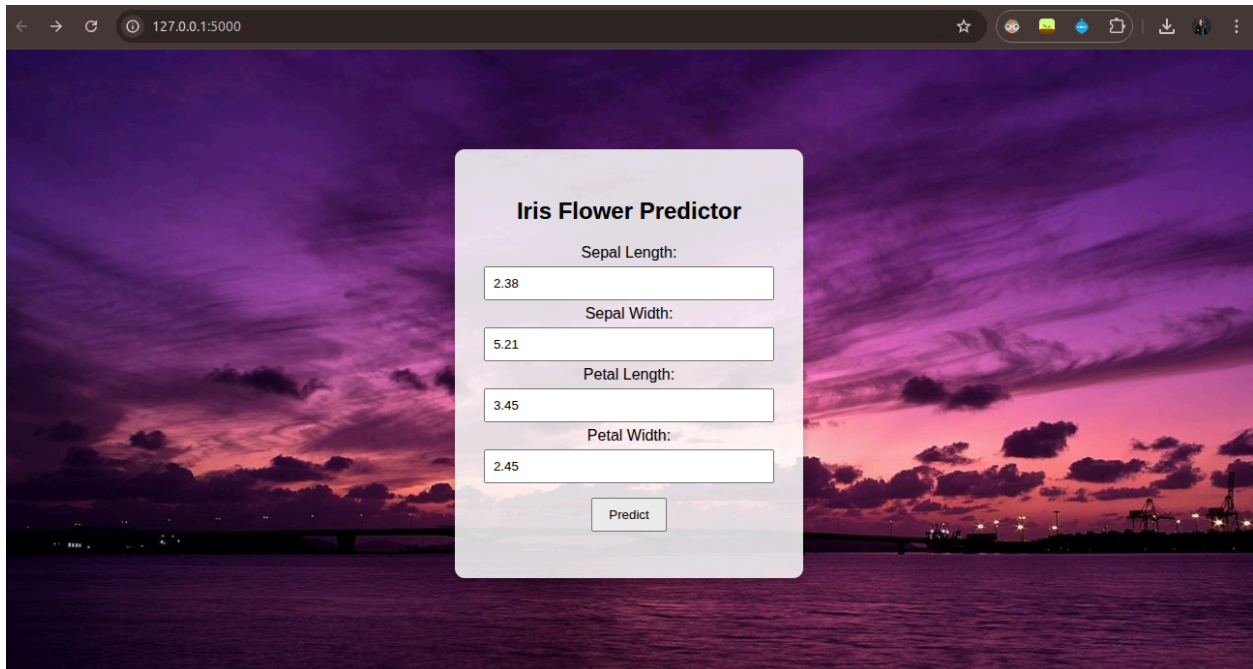# Fitting the model to the training data
clf.fit(X_train, y_train)

Predicting the data:
y_pred = clf.predict(X_test)

Running the Virtual Environment in the Ubuntu Terminal:

```
(venv) bhavya@bhavyas-linux:~/Documents/dg/week_4$ python3 app.py
/home/bhavya/Documents/dg/week_4/venv/lib/python3.12/site-packages/sklearn/base.py:380:
InconsistentVersionWarning: Trying to unpickle estimator DecisionTreeClassifier from ver
sion 1.4.1.post1 when using version 1.6.1. This might lead to breaking code or invalid r
esults. Use at your own risk. For more info please refer to:
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitati
ons
  warnings.warn(
 * Serving Flask app 'app'
 * Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a p
roduction WSGI server instead.
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
```

Deployment:

Prediction: