

Flask Deployment on Web App

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Batch Code: LISUM45

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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)
```

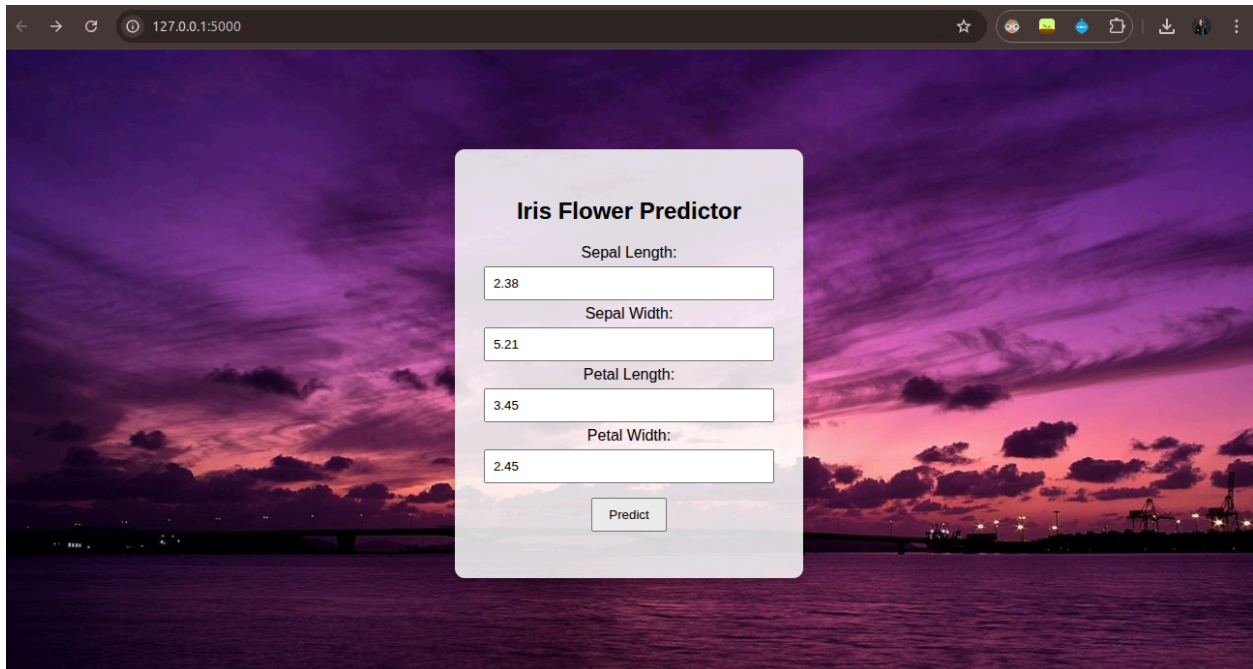
Predicting the data:

```
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:



A screenshot of a web browser displaying the "Iris Flower Predictor" application. The browser's address bar shows the URL "127.0.0.1:5000". The application interface features a light gray modal box centered on a background image of a sunset over water. The modal box is titled "Iris Flower Predictor" and contains four input fields for "Sepal Length:", "Sepal Width:", "Petal Length:", and "Petal Width:". The input fields contain the values "2.38", "5.21", "3.45", and "2.45" respectively. A "Predict" button is located at the bottom of the modal box.

Iris Flower Predictor

Sepal Length: 2.38

Sepal Width: 5.21

Petal Length: 3.45

Petal Width: 2.45

Predict

Prediction:



A screenshot of the same web browser displaying the "Iris Flower Predictor" application. The browser's address bar now shows the URL "127.0.0.1:5000/predict". The application interface is identical to the previous screenshot, but the input fields are now empty. Below the "Predict" button, the text "Predicted Iris Species: Virginica" is displayed.

Iris Flower Predictor

Sepal Length:

Sepal Width:

Petal Length:

Petal Width:

Predict

Predicted Iris Species: Virginica