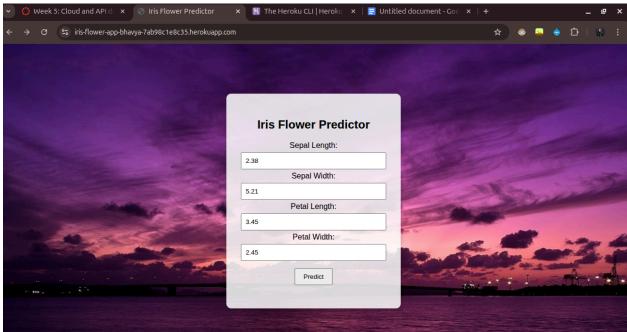
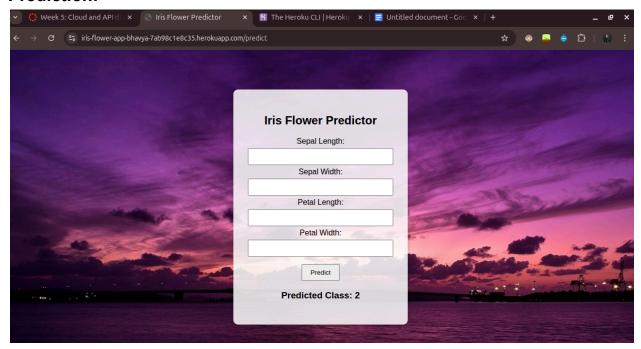
## **Heroku Cloud & API Deployment**

```
Name: Bhavya Jha
Batch Code: LISUM45
Submission date: June 4th, 2025
Submitted to: GitHub
Model Setup:
Loading the data:
iris = load iris()
X, y = iris.data, iris.target
Training the data:
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)
clf = DecisionTreeClassifier(random state=42)
clf.fit(X train, y train)
Predicting the data:
y_pred = clf.predict(X_test)
test api.py file:
import requests
# Replace with your deployed app URL
url = "https://iris-flower-app-bhavya-7ab98c1e8c35.herokuapp.com/api"
# Sample input: Sepal Length, Sepal Width, Petal Length, Petal Width
payload = {
  "features": [2.38, 5.21, 3.45, 2.45]
# Send POST request
response = requests.post(url, json=payload)
# Output the result
if response.status_code == 200:
  print(" Success:", response.json())
else:
  print("X Failed:", response.status_code, response.text)
```

## Heroku web deployment



## **Prediction:**



Site hosted on: <a href="https://iris-flower-app-bhavya-7ab98c1e8c35.herokuapp.com/">https://iris-flower-app-bhavya-7ab98c1e8c35.herokuapp.com/</a>

## Confirming that the API is running via Terminal:

```
bhavya@bhavyas-linux:~/Documents/dg/week_5$ curl -X POST https://iris-flower-app-bhavya-7ab98c1e8c35.herokuapp.com/api \
> -H "Content-Type: application/json" \
> -d '{"features": [2.38, 5.21, 3.45, 2.45]}'
{"prediction":[2]}
bhavya@bhavyas-linux:~/Documents/dg/week_5$ python3 test_api.py

Success: {'prediction': [2]}
```