### Machine Learning API with Flask (Local & Heroku)

## **Objective:**

- Deploy a machine learning model using Flask.
- Make predictions using an API locally and on Heroku.

### **Key Files:**

# 1. app.py:

- o Flask app that loads the trained model and serves an API.
- o **Route** /predict: Receives input and returns a prediction.

# 2. **run.py**:

- Tests the Flask app running locally.
- o Sends a POST request to http://127.0.0.1:5000/predict with input data.

# 3. run-heroku.py:

- o Tests the Flask app deployed on Heroku.
- Sends a POST request to https://run-iris-794bce0fc4df.herokuapp.com/predict with input data.

#### Steps:

### 1. Running Flask Locally:

Command: python app.py

Result: The Flask app runs at http://127.0.0.1:5000/.

#### 2. Testing Local API:

Command: python run.py

Result: Sends input to the local API and gets a prediction

### 3. Testing Heroku API:

Command: python run-heroku.py

Result: The app is deployed to Heroku at <a href="https://run-iris-794bce0fc4df">https://run-iris-794bce0fc4df</a>. heroku app.com/</a>

Sends input to the Heroku API and gets a prediction





