

Model Deployment Report - Iris Classifier

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Step 1: Train and Save the Model

We started by training a simple machine learning model using the Iris dataset. A Decision Tree Classifier was used.

After training, the model was saved using Python's `joblib` library so it could be reused during deployment.

Step 2: Build Flask Web App

Next, we created a Flask web application to serve the model. The app loads the saved model, provides a form for user input, and predicts the Iris species based on the input.

Step 3: Run the Flask App

Using the terminal, we navigated to the project folder and started the Flask server using the command `python app.py`.

The app was successfully hosted at `http://127.0.0.1:5000`, where users could input flower dimensions and get predictions.

Step 4: Output and Results

Below are screenshots showing the Flask app running and the interface displayed in the browser.

```

Last login: Sun Jun 29 20:23:49 on ttys000
[base] pratapreddy@Mac ~ % cd Downloads
[base] pratapreddy@Mac Downloads % cd iris_deploy
(base) pratapreddy@Mac iris_deploy % python app.py

* Serving Flask app 'app'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with watchdog (fsevents)
* Debugger is active!
* Debugger PIN: 796-645-834
* Running on http://127.0.0.1:5000

127.0.0.1 - - [29/Jun/2025 20:26:50] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [29/Jun/2025 20:26:50] "GET /favicon.ico HTTP/1.1" 404 -
127.0.0.1 - - [29/Jun/2025 20:27:25] "GET / HTTP/1.1" 200 -

```