Flask Deployment – Iris Flower Prediction (Example PDF Layout)

Title: Deployment on Flask

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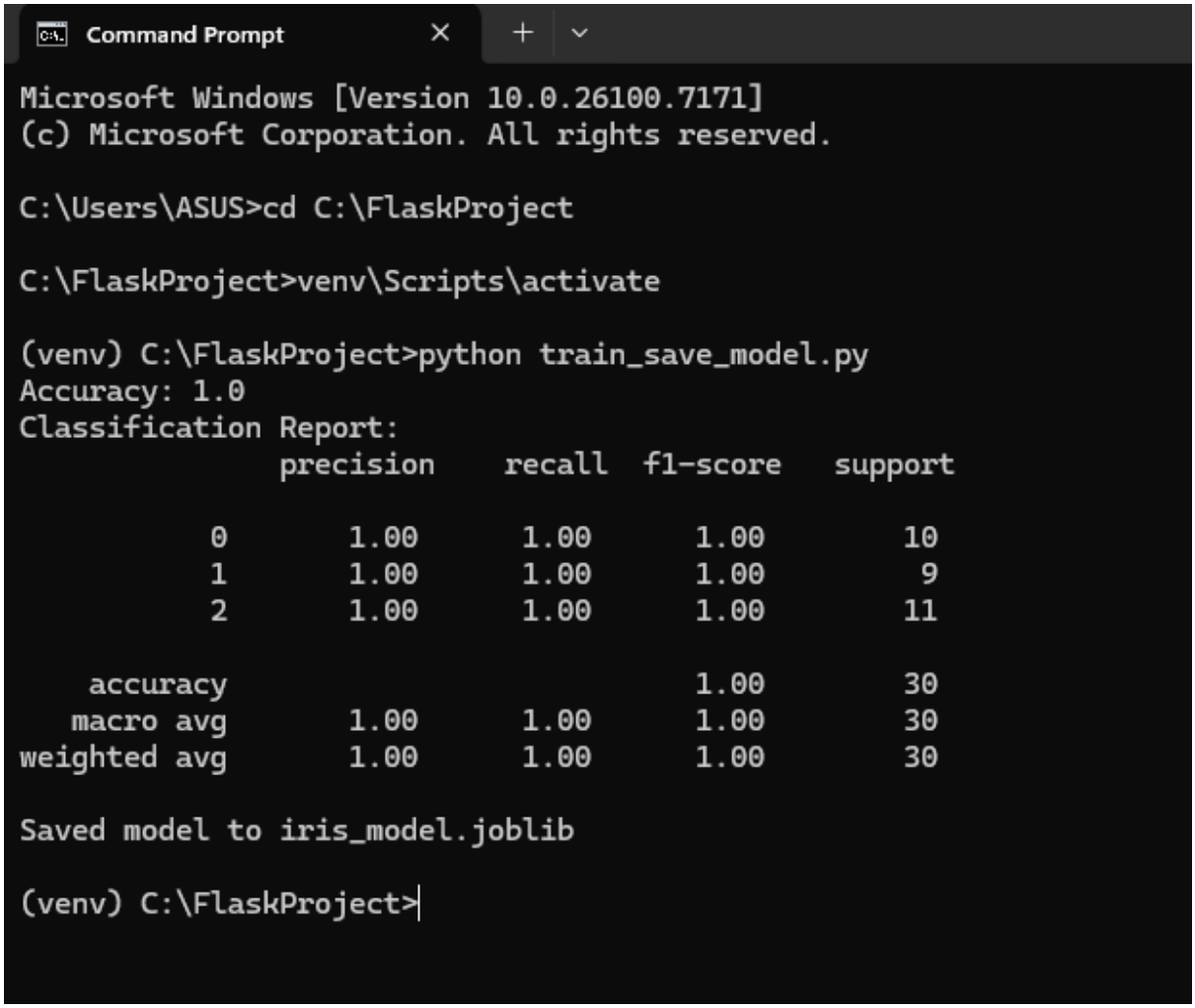
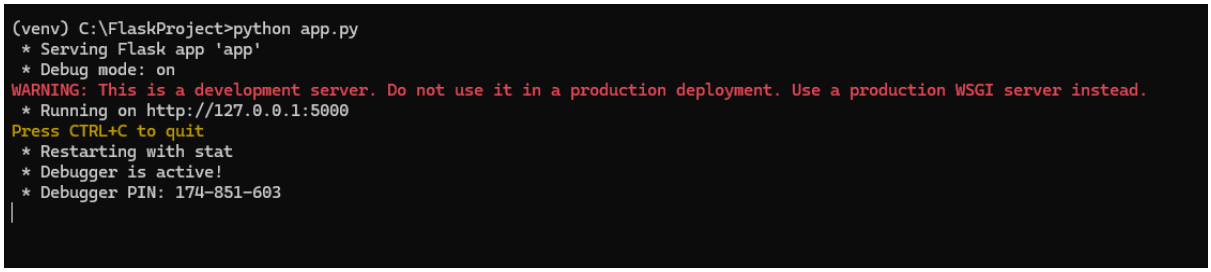
1️⃣ Training Script Output

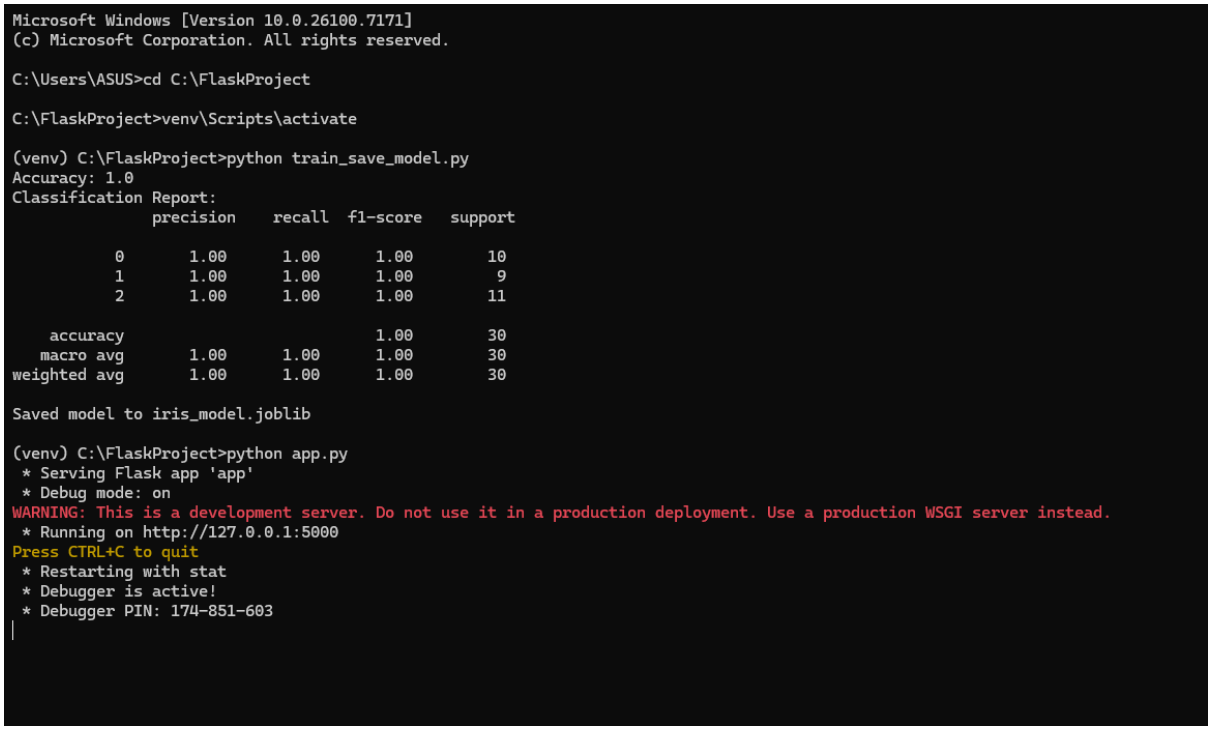
Description:
This screenshot shows the model being trained on the Iris dataset. The accuracy, classification report, and confirmation of saved model (iris_model.joblib) are visible.



2️⃣ Flask App Running

Description:
This screenshot shows the Flask web app running locally on http://127.0.0.1:5000/. The CMD window shows the app is ready to receive input.





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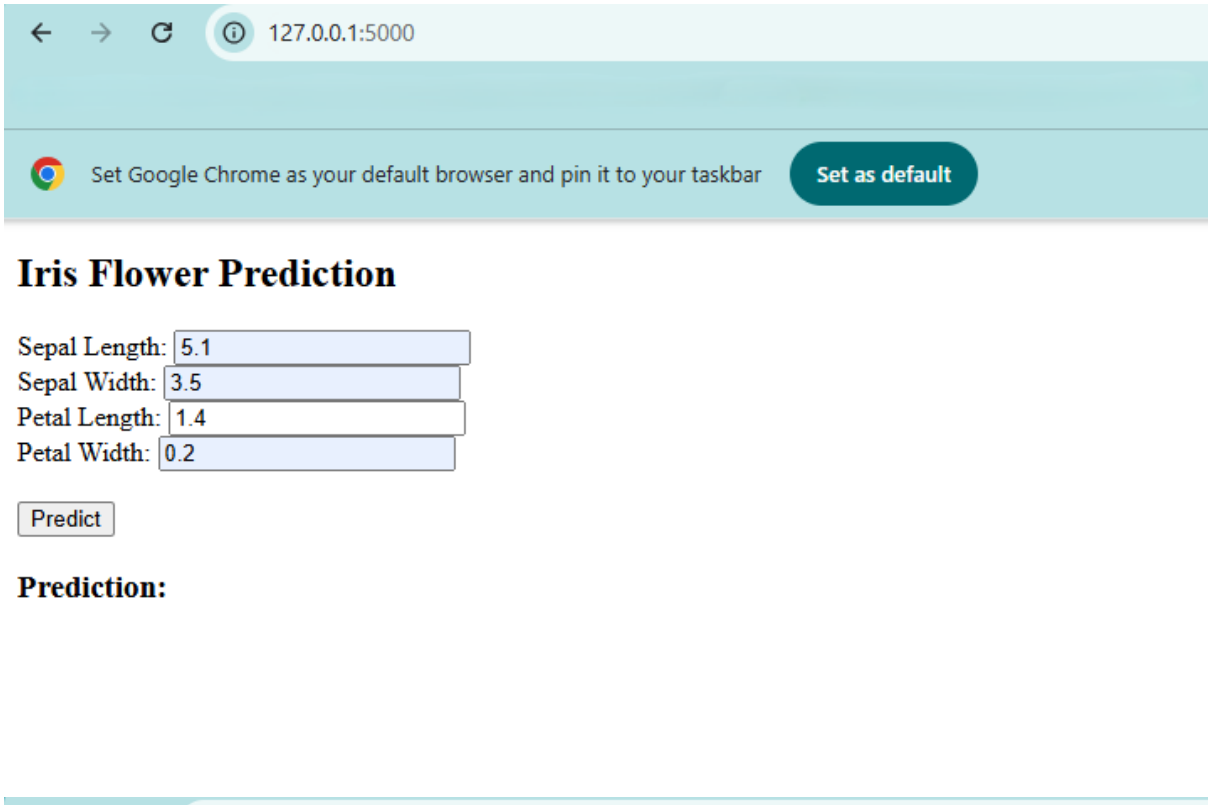
3 Web App Prediction

Description:
This screenshot shows the web page where the user inputs Iris flower features. After submitting the form, the predicted species is displayed.



Example values for testing:

Sepal Length	Sepal Width	Petal Length	Petal Width	Prediction
5.1	3.5	1.4	0.2	setosa
6.0	2.9	4.5	1.5	versicolor
6.5	3.0	5.8	2.2	virginica

4️⃣ Workflow / Explanation

Workflow Steps:

1. Train Model: Use train_save_model.py to train a Random Forest classifier on the Iris dataset.
2. Save Model: Save the trained model using joblib as iris_model.joblib.
3. Create Flask App: Build app.py to take user input from a web form.
4. Load Model in Flask: Load iris_model.joblib and make predictions.
5. Display Prediction: Show the predicted species on the web page (index.html).