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Batch Code: LISUM44: 30 March (2025) – 30 June (2025)

Submission Date: May 05, 2025

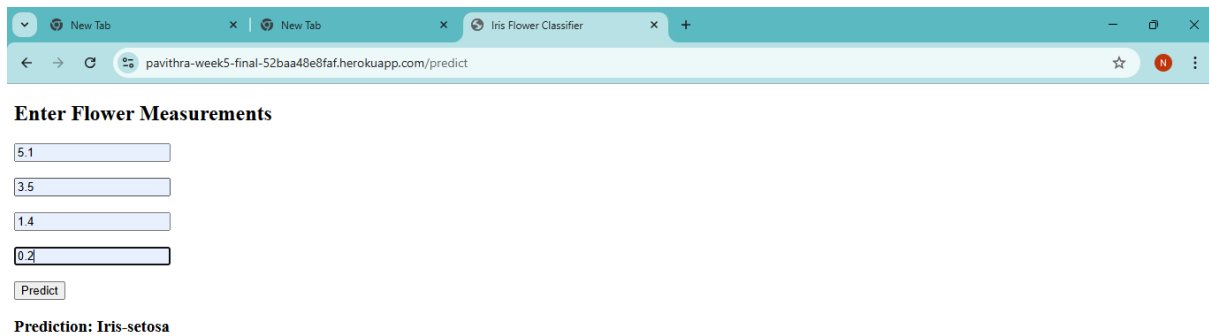
Submitted To: Data Glacier Team

Heroku Deployment Proof

Topic: Deploy ML model using Flask on Heroku

Heroku App URL: <https://pavithra-week5-final-52baa48e8faf.herokuapp.com/>

1. Heroku App Running Successfully

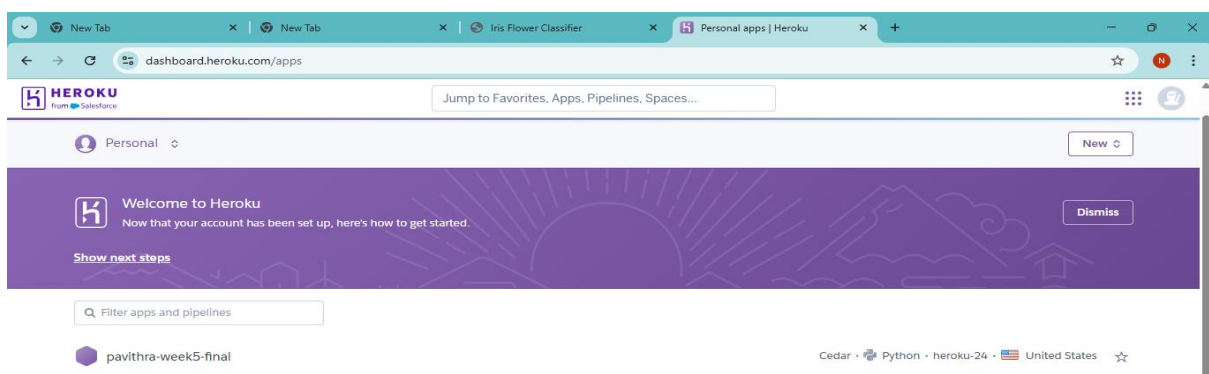


The screenshot shows a web browser with three tabs: 'New Tab', 'New Tab', and 'Iris Flower Classifier'. The address bar displays the URL 'pavithra-week5-final-52baa48e8faf.herokuapp.com/predict'. The page content includes a heading 'Enter Flower Measurements' followed by four input fields containing the values '5.1', '3.5', '1.4', and '0.2'. Below these fields is a 'Predict' button. The output of the prediction is displayed as 'Prediction: Iris-setosa'.

Deployed app showing input fields and predicted output (Iris-setosa).

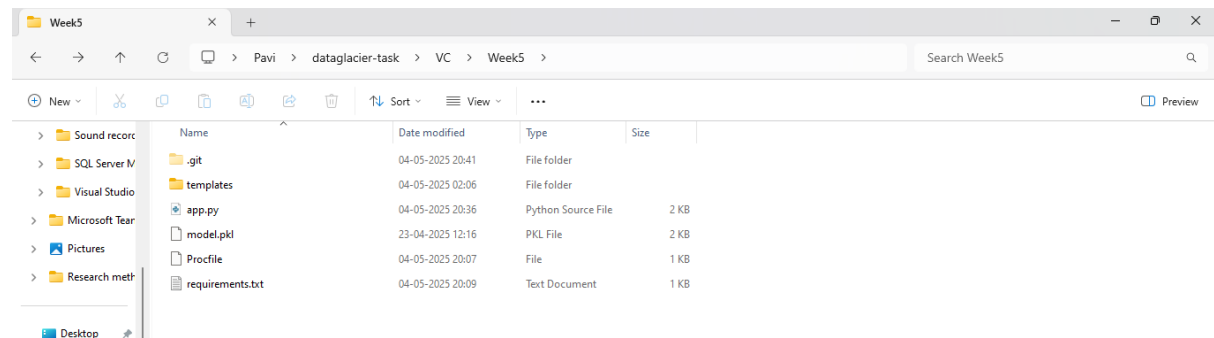
Web app hosted on Heroku running successfully with a correct prediction result.

2. Heroku Dashboard



Heroku dashboard showing the deployed app pavithra-week5-final.
Confirmation that the app is successfully deployed on Heroku.

3.Project Folder Structure



Local folder structure containing all necessary files for Heroku deployment.

4. Git Deployment

```
MINGW64/c/Users/hp/dataglacier-task/VC/Week5
hp@DESKTOP-P6EM611 MINGW64 ~/dataglacier-task/VC/Week5 (week5_fix)
$ git push heroku week5_fix:master
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 577 bytes | 577.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Updated 5 paths from 8d5d653
remote: Compressing source files... done.
remote: Building source:
remote:
remote: ----> Building on the Heroku-24 stack
remote: ----> Using buildpack: heroku/python
remote: ----> Python app detected
remote: ----> No Python version was specified. Using the same major version as the last build: Python 3.13
remote: To use a different version, see: https://devcenter.heroku.com/articles/python-runtimes
remote: ----> Restoring cache
remote: ----> Using cached install of Python 3.13.3
remote: ----> Installing pip 25.0.1
remote: ----> Installing dependencies using 'pip install -r requirements.txt'
remote: Requirement already satisfied: Flask==3.1.0 (from -r requirements.txt (line 1)) (3.1.0)
remote: Requirement already satisfied: gunicorn==23.0.0 (from -r requirements.txt (line 2)) (23.0.0)
remote: Requirement already satisfied: scikit-learn==1.6.1 (from -r requirements.txt (line 3)) (1.6.1)
remote: Requirement already satisfied: numpy (from -r requirements.txt (line 4)) (2.2.5)
remote: Requirement already satisfied: joblib (from -r requirements.txt (line 5)) (1.5.0)
remote: Requirement already satisfied: Werkzeug==3.1.1 (from Flask==3.1.0->-r requirements.txt (line 1)) (3.1.1)
remote: Requirement already satisfied: Jinja2==3.1.2 (from Flask==3.1.0->-r requirements.txt (line 1)) (3.1.6)
remote: Requirement already satisfied: itsdangerous==2.2 (from Flask==3.1.0->-r requirements.txt (line 1)) (2.2.0)
remote: Requirement already satisfied: click==8.1.3 (from Flask==3.1.0->-r requirements.txt (line 1)) (8.1.8)
remote: Requirement already satisfied: blinker==1.9 (from Flask==3.1.0->-r requirements.txt (line 1)) (2.9.0)
remote: Requirement already satisfied: packaging (from gunicorn==23.0.0->-r requirements.txt (line 2)) (25.0)
remote: Requirement already satisfied: scipy==1.6.0 (from scikit-learn==1.6.1->-r requirements.txt (line 3)) (1.15.2)
remote: Requirement already satisfied: threadpoolctl==3.1.0 (from scikit-learn==1.6.1->-r requirements.txt (line 3)) (3.6.0)
remote: Requirement already satisfied: MarkupSafe==2.0 (from Jinja2==3.1.2->Flask==3.1.0->-r requirements.txt (line 1)) (3.0.2)
remote: ----> Discovering process types
remote: Procfile declares types -> web
remote: ----> Compressing...
remote: Done: 97.2M
remote: ----> Launching...
remote: Released v4
remote: https://pavithra-week5-final-52baa48efaf.herokuapp.com/ deployed to Heroku
remote:
remote: Verifying deploy... done.
To https://git.heroku.com/pavithra-week5-final.git
d6018d0..abc1a89 week5_fix -> master
```

Git and Heroku deployment commands executed successfully

SUMMARY

I have successfully deployed the Week 5 Flask-based machine learning application on Heroku.

The model predicts Iris flower class based on input features.

The deployed app is tested and functional.