

Data Glacier Assignment

Iris Model Deployment on Heroku

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Submission Date: 09 July 2021

Submitted To: Data Glacier


1. I made a webpage using HTML that could be used to input the values for the Iris flower class prediction.


```
1 <!DOCTYPE html>
2
3 <html lang="en">
4
5 <head>
6   <title>Predict Iris Flower Class</title>
7
8   <link href="https://maxcdn.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css"
9 </head>
10
11 <body>
12   <br>
13   <h1>Iris Flower Class Prediction</h1>
14   <div>
15     <br>
16     <p>Enter the following measurements and hit 'Predict' to get the class of Iris
17
18     <form action="{{ url_for('predict')}}" method="post">
19       <input type="text" name = "sepal_len" placeholder="Sepal Length" required=
20       <input type="text" name = "sepal_wid" placeholder="Sepal Width" required=
21       <input type="text" name = "petal_len" placeholder="Petal Length" required=
22       <input type="text" name = "petal_wid" placeholder="Petal Width" required=
23
24       <button class="btn btn-primary" type="submit">Predict</button>
25     <br><br>
26     {{ prediction_text }}
27   </div>
28 </body>
29
30
31
32
```


- The files were pushed to a Github repository, including a Procfile and requirements.txt file which are required by Heroku. I also

 **MuadhF** / **iris-heroku** Unwatch

[Code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Wiki](#) [Security](#) [Insights](#) [Settings](#)

 main ▾



 1 branch







 0 tags

[Go to file](#)

[Add file ▾](#)

[Code ▾](#)

 **MuadhF** Add files via upload 685005b 1 hour ago  6 commits

 templates	Add files via upload	3 hours ago
 Procfile	Add files via upload	1 hour ago
 README.md	Initial commit	3 hours ago
 model.py	Add files via upload	3 hours ago
 requirements.txt	Update requirements.txt	2 hours ago
 simple_model.pkl	Add files via upload	3 hours ago

- Then on Heroku, I connected to my Github account and then to the repository.

Deployment method



Heroku Git
Use Heroku CLI



GitHub
Connected



Container Registry
Use Heroku CLI

App connected to GitHub

Code diffs, manual and auto deploys are available for this app.

Connected to [MuadhF/iris-heroku](#) by [MuadhF](#)

[Disconnect...](#)

 Releases in the [activity feed](#) link to GitHub to view commit diffs

4. Once Heroku connected to the repository, I deployed the model

Choose a branch to deploy

 main

⌵

Deploy Branch

Receive code from GitHub



Build **main** 685005b8



```
-----> Building on the Heroku-20 stack
-----> Using buildpack: heroku/python
-----> Python app detected
```

☒ Autoscroll with output

[View build log](#)


Release phase

Deploy to Heroku

Deploy a GitHub branch

This will deploy the current state of the branch you specify below. [Learn more.](#)

Choose a branch to deploy

 main

⌵

Deploy Branch

Receive code from GitHub



Build **main** 685005b8



Release phase



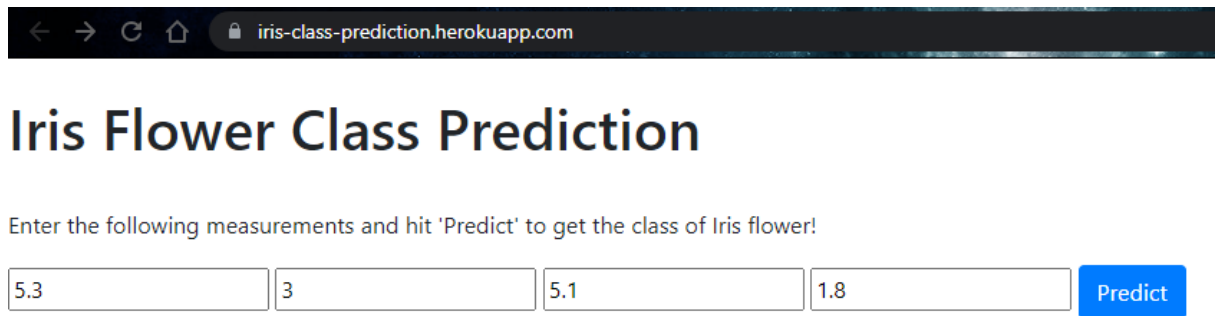
Deploy to Heroku



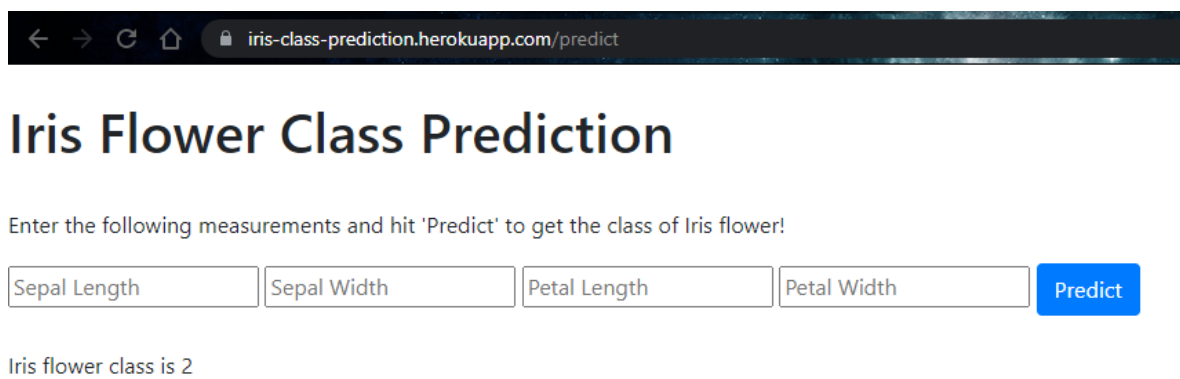
Your app was successfully deployed.

 View

5. Then the link could be opened and the model was ready to use.



The screenshot shows a web browser with the address bar displaying "iris-class-prediction.herokuapp.com". The page title is "Iris Flower Class Prediction". Below the title, a text prompt reads: "Enter the following measurements and hit 'Predict' to get the class of Iris flower!". There are four input fields containing the values "5.3", "3", "5.1", and "1.8". To the right of these fields is a blue button labeled "Predict".



The screenshot shows the same web application, but the address bar now includes the path "/predict". The input fields are now labeled "Sepal Length", "Sepal Width", "Petal Length", and "Petal Width". The "Predict" button is still present. Below the input fields, the text "Iris flower class is 2" is displayed.