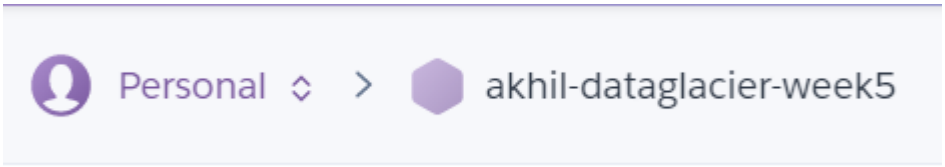
Name: Akhil Nair
Batch code: LISUM03 (Aug 15 – Nov 15 Data Science Batch)
Submission Date: 19/09/2021

Week 5 Task: Cloud and API Deployment

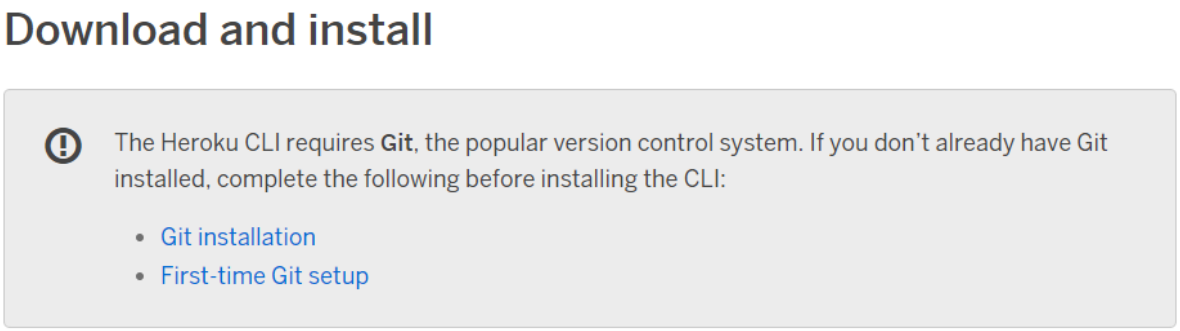
Aim: Deploying a model on an open source cloud , in my case, Heroku.

Procedure:

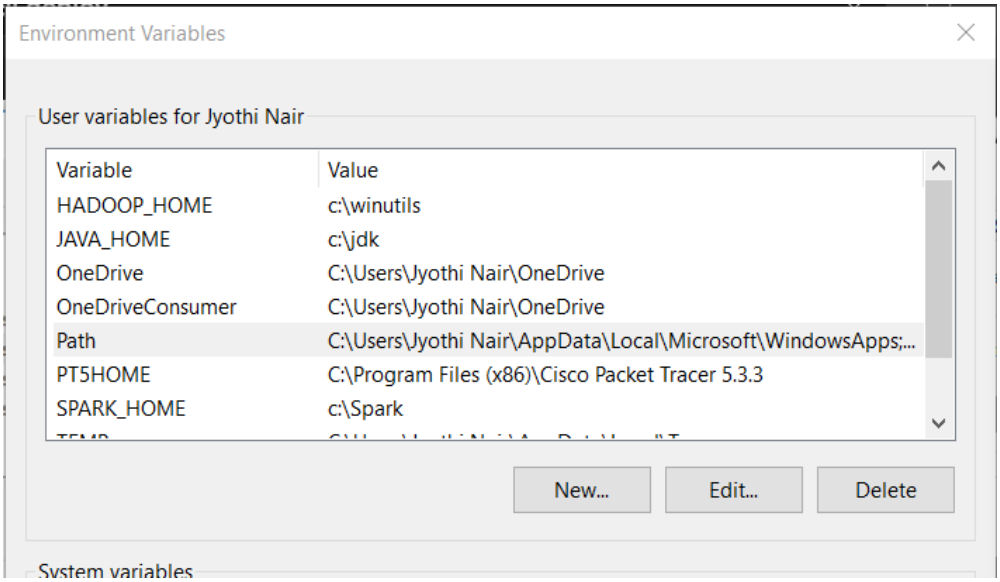
1. Create a Heroku account and choose an app name. I have called my app Akhil-dataglacier-week5 as shown below:



2. I chose to deploy the model via Heroku's command line interface, so we download Heroku CLI:



3. Now we edit environment variables and add new path:



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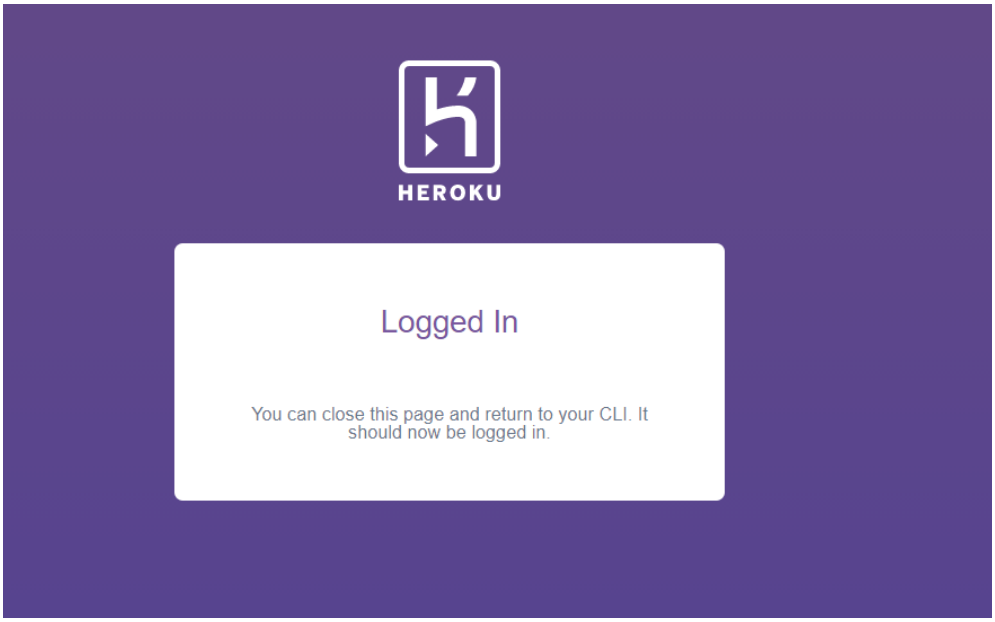
4. This is the location of the Heroku command Line Interface (CLI):

```
C:\Program Files\heroku\bin
```

5. Now we use the 'heroku login' command to login to Heroku on our terminal:

```
Logging in... done
Logged in as aki200719aug@gmail.com
heroku: Press any key to open up the browser to login or q to exit:
```

6. It shows that we have logged in successfully:



7. Now we use the 'git init' command to initialize an empty repo:

```
C:\Users\Jyothi Nair\Desktop\Flask Deployment\deploy-ml-model-flask-master>git init
Initialized empty Git repository in C:/Users/Jyothi Nair/Desktop/Flask Deployment/deploy-ml-model-flask-master/.git/
```

8. Setting the remote git:

```
C:\Users\Jyothi Nair\Desktop\Flask Deployment\deploy-ml-model-flask-master>heroku git:remote -a akhil-dataglacier-week5
set git remote heroku to https://git.heroku.com/akhil-dataglacier-week5.git
```

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9. Creating a commit and publishing it, and then pushing our model to Heroku:

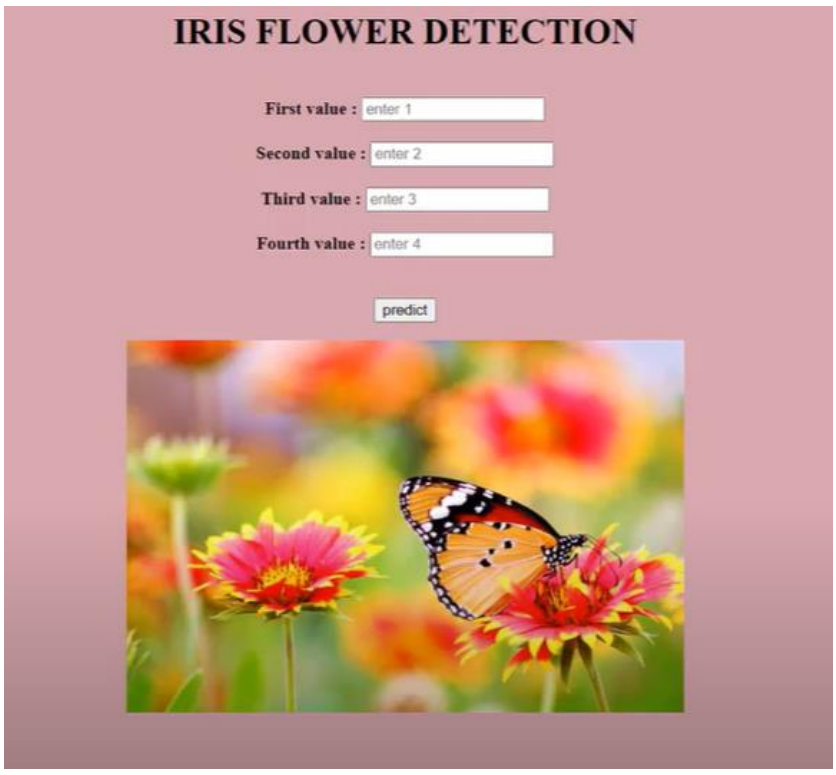
```
C:\Users\Jyothi Nair\Desktop\Flask Deployment\deploy-ml-model-flask-master>git commit -am "initial commit"
[master (root-commit) 5f17b58] initial commit
 12 files changed, 289 insertions(+)
 create mode 100644 Procfile
 create mode 100644 app.py
 create mode 100644 basics.py
 create mode 100644 iri.pkl
 create mode 100644 iris.data
 create mode 100644 iris.py
 create mode 100644 requirements.txt
 create mode 100644 static/flower1.jpg
 create mode 100644 static/setosa.jpg
 create mode 100644 static/verci.jpg
 create mode 100644 templates/after.html
 create mode 100644 templates/home.html

C:\Users\Jyothi Nair\Desktop\Flask Deployment\deploy-ml-model-flask-master>git push heroku master
Enumerating objects: 16, done.
Counting objects: 100% (16/16), done.
Delta compression using up to 8 threads
Compressing objects: 100% (15/15), done.
Writing objects: 100% (16/16), 82.83 KiB | 16.57 MiB/s, done.
```

10. Now we just type “Heroku open” and run our model:

```
C:\Users\Jyothi Nair\Desktop\Flask Deployment\deploy-ml-model-flask-master>heroku open
```

11. Hence, the model has successfully been deployed on Heroku:



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