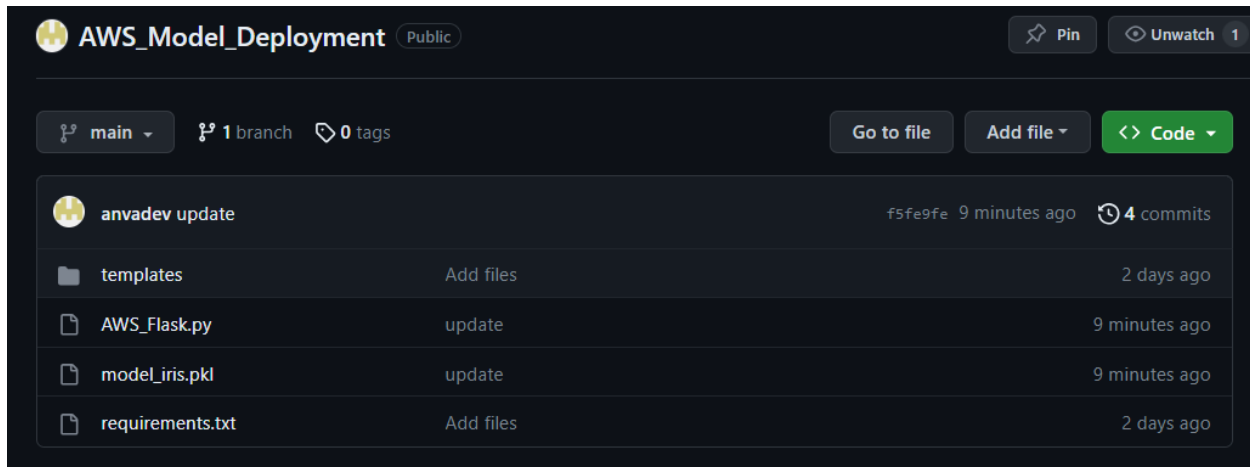


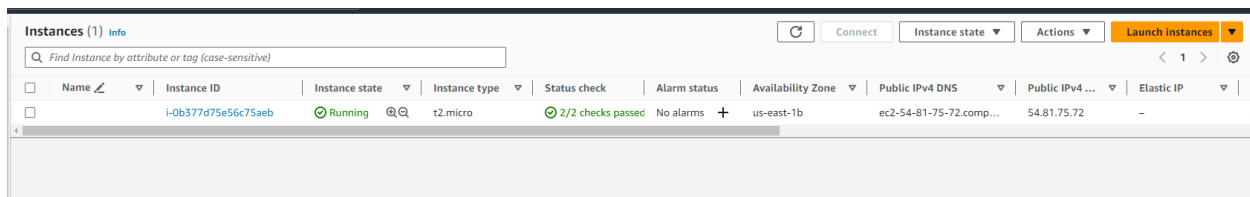
<b>Name:</b>	Ansel Vallejo
<b>Batch Code:</b>	LISUM25
<b>Submission Date:</b>	2023-10-05
<b>Submitted To:</b>	Data Glacier

## Deployment on AWS EC2

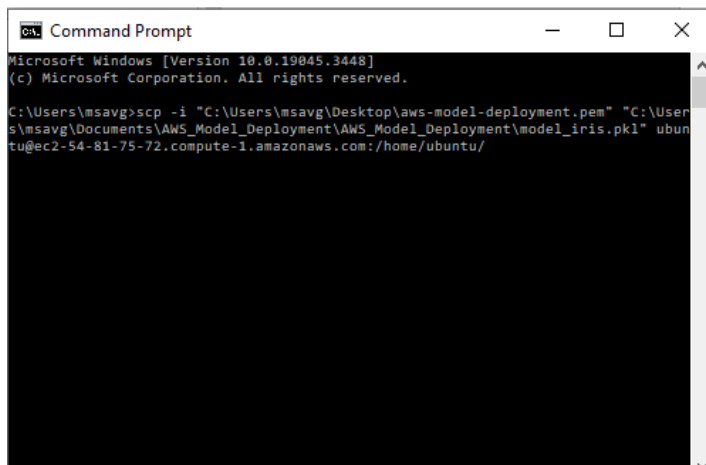
1. **Create a Repository** - The Flask files were used again to be uploaded into AWS EC2



2. **Create an AWS EC2 Instance** – An AWS account needs to be made before making an instance



3. **Add the files into the instance** – now that the instance is fully set-up and operational, the files that are in the new GitHub repository should be uploaded in the instance so that the model can be ran in the mall once called.



4. **Connect to the instance and run command to run the Flask web app** – now that all the proper files are in the instance cloud storage, its time to run the `AWS_Flask.py` script inside the instance.

```
ubuntu@ip-172-31-37-28: ~
Microsoft Windows [Version 10.0.19045.3448]
(c) Microsoft Corporation. All rights reserved.

C:\Users\msavg>cd Documents
C:\Users\msavg\Documents>cd ..
C:\Users\msavg>cd Desktop
C:\Users\msavg\Desktop> ssh -i "aws-model-deployment.pem" ubuntu@ec2-54-81-75-72.compute-1.amazonaws.com
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.19.0-1025-aws x86_64)Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.19.0-1025-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Sat Oct  7 10:49:04 UTC 2023

System load:  0.00537109375   Processes:            98
Usage of /:   36.7% of 7.57Gb   Users logged in:      0
Memory usage: 30%            IPv4 address for eth0: 172.31.37.28
Swap usage:   0%

 * Ubuntu Pro delivers the most comprehensive open source security and
   compliance features.

https://ubuntu.com/aws/pro

Expanded Security Maintenance for Applications is not enabled.

59 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

*** System restart required ***
Last login: Sat Oct  7 07:05:28 2023 from 18.206.107.27
ubuntu@ip-172-31-37-28:~$ python3 AWS_Flask.py
/home/ubuntu/.local/lib/python3.10/site-packages/sklearn/base.py:348: InconsistentVersionWarning: Trying to unpickle estimator DecisionTreeClassifier from version 1.3.0 w
hen using version 1.3.1. This might lead to breaking code or invalid results. Use at your own risk. For more info please refer to:
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
 * warnings.warn(
/home/ubuntu/.local/lib/python3.10/site-packages/sklearn/base.py:348: InconsistentVersionWarning: Trying to unpickle estimator RandomForestClassifier from version 1.3.0 w
hen using version 1.3.1. This might lead to breaking code or invalid results. Use at your own risk. For more info please refer to:
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
 * warnings.warn(
 * Serving Flask app 'AWS_Flask'
 * Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on all addresses (0.0.0.0)
 * Running on http://127.0.0.1:8080
 * Running on http://172.31.37.28:8080
Press CTRL+C to quit
```

5. **Check the web app model on the browser** – once the model is successfully running, now the web app model can be seen on the browser. Unlike Flask, the instance address must be used followed by the Port.

← → ↻ ⚠ Not secure | ec2-54-81-75-72.compute-1.amazonaws.com:8080

## Iris Flower Classification

Sepal Length:

Sepal Width:

Petal Length:

Petal Width:

Predict

← → ↻ ⚠ Not secure | ec2-54-81-75-72.compute-1.amazonaws.com:8080/predict

## Iris Flower Classification

Sepal Length:

Sepal Width:

Petal Length:

Petal Width:

Predict

**Predicted Species: Versicolor**