

# WEEK 5 API CLOUD DEPLOYMENT

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Batch Code:LISUM30

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Submitted to:Data Glacier

Data Set : [Iris.csv](#)

Code: <https://github.com/SanjanaNaidu/DataGlacier>

Deployed in AWS EC2:

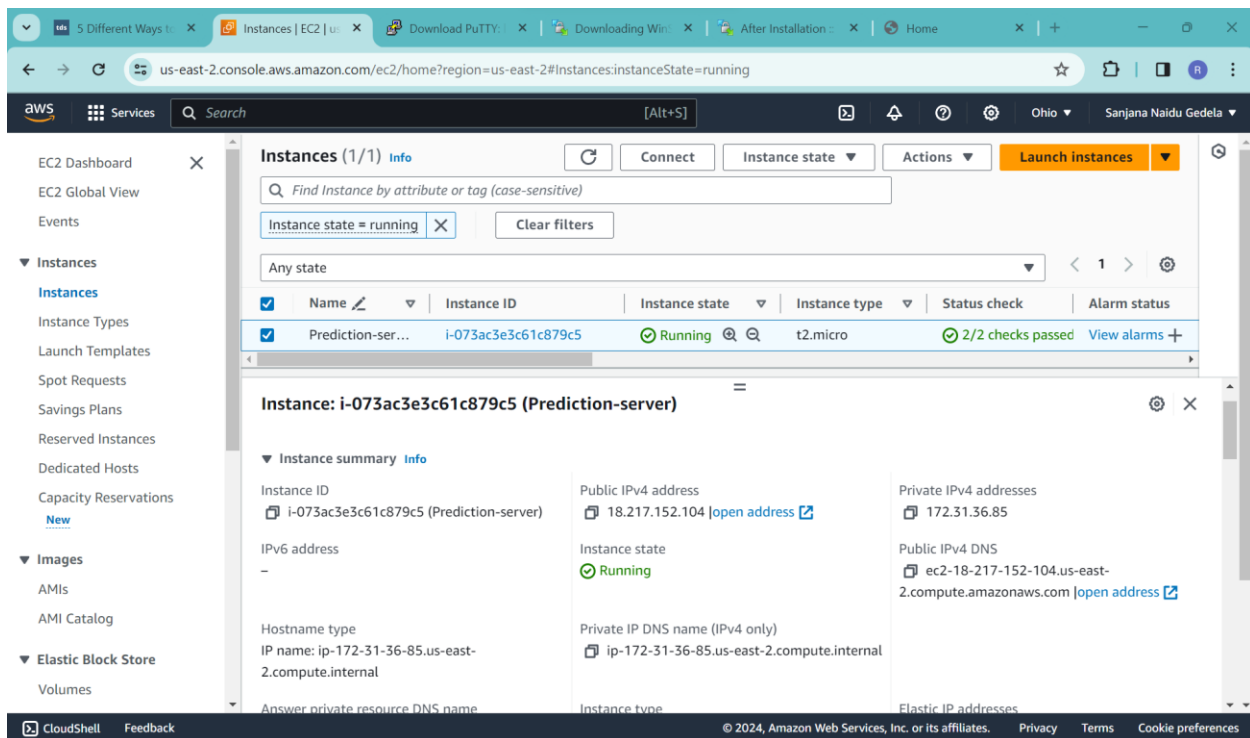
Steps Involved:

## **1.Creating an Ec2 Instance:**

AMI-Ubuntu

Storage-t2 micro

Setup: connected using putty and winscp



## 2.Installation of all the required packages via putty

```
ubuntu@ip-172-31-36-85:~$
Using username "ubuntu".
Authenticating with public key "imported-openssh-key"
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 6.2.0-1018-aws x86_64)

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

System information as of Wed Mar  6 20:18:22 UTC 2024

System load:  0.0          Processes:      104
Usage of /:   20.8% of 7.57GB   Users logged in:  1
Memory usage: 24%          IPv4 address for eth0: 172.31.36.85
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

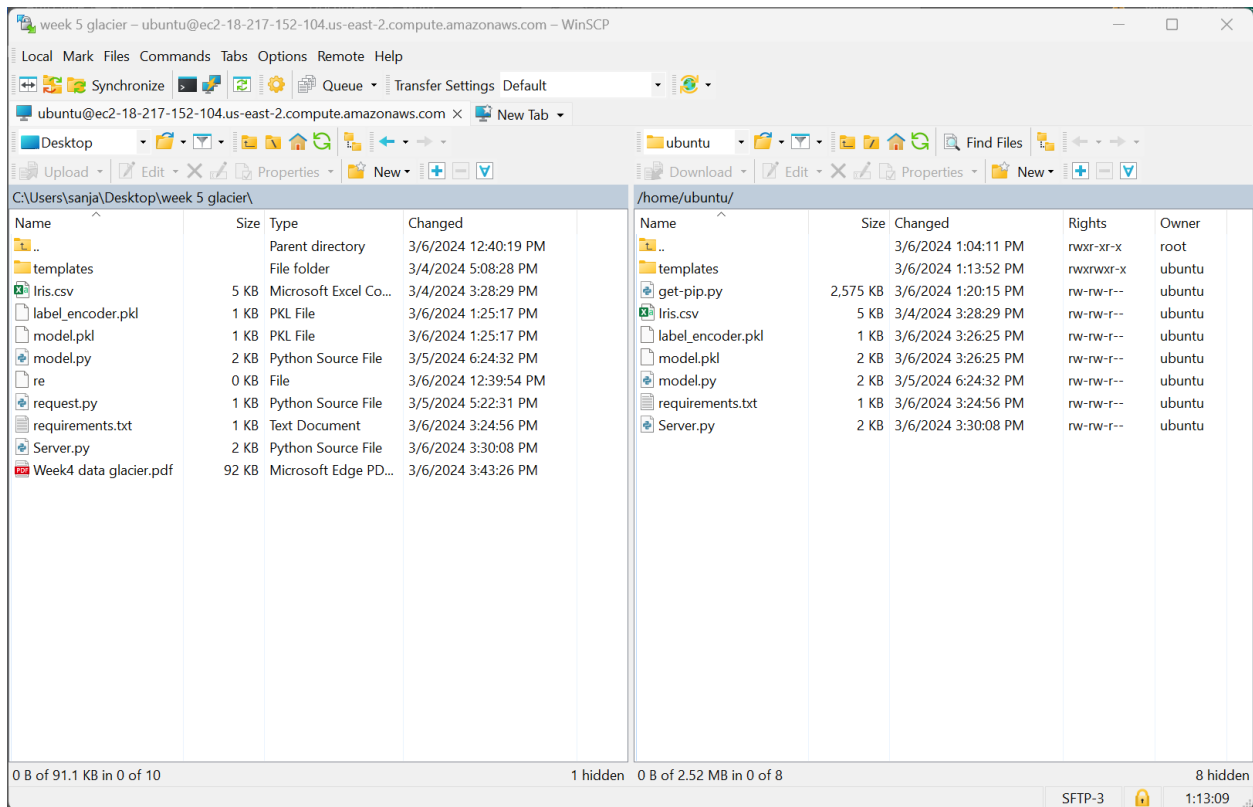
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

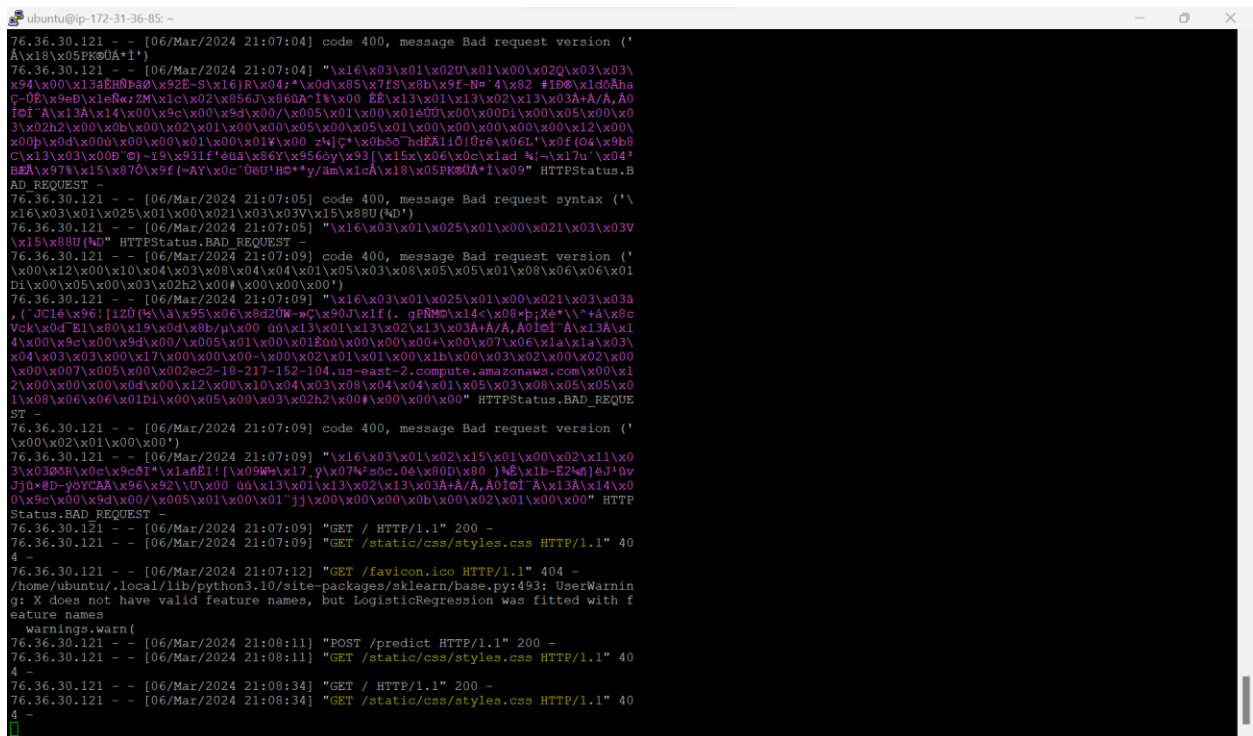
Last login: Wed Mar  6 18:14:43 2024 from 173.95.57.201
ubuntu@ip-172-31-36-85:~$ python3 --version
Python 3.10.12
ubuntu@ip-172-31-36-85:~$ pip3 install -r requirements.txt
Defaulting to user installation because normal site-packages is not writable
Collecting flask (from -r requirements.txt (line 1))
  Using cached flask-3.0.2-py3-none-any.whl.metadata (3.6 kB)
Collecting numpy (from -r requirements.txt (line 2))
  Using cached numpy-1.26.4-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (61 kB)
Collecting pandas (from -r requirements.txt (line 3))
  Using cached pandas-2.2.1-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (19 kB)
Collecting joblib (from -r requirements.txt (line 4))
  Using cached joblib-1.3.2-py3-none-any.whl.metadata (5.4 kB)
Collecting jsonify (from -r requirements.txt (line 5))
  Downloading jsonify-0.5.tar.gz (1.0 kB)
  Preparing metadata (setup.py) ... done
Collecting sklearn (from -r requirements.txt (line 6))
  Downloading sklearn-0.0.post12.tar.gz (2.6 kB)
  Preparing metadata (setup.py) ... error
error: subprocess-exited-with-error
```

Command: pip3 install -r requirements.txt

Uploaded the files via winscp to ubuntu home.



### 3. Running the flask file in the putty prompt

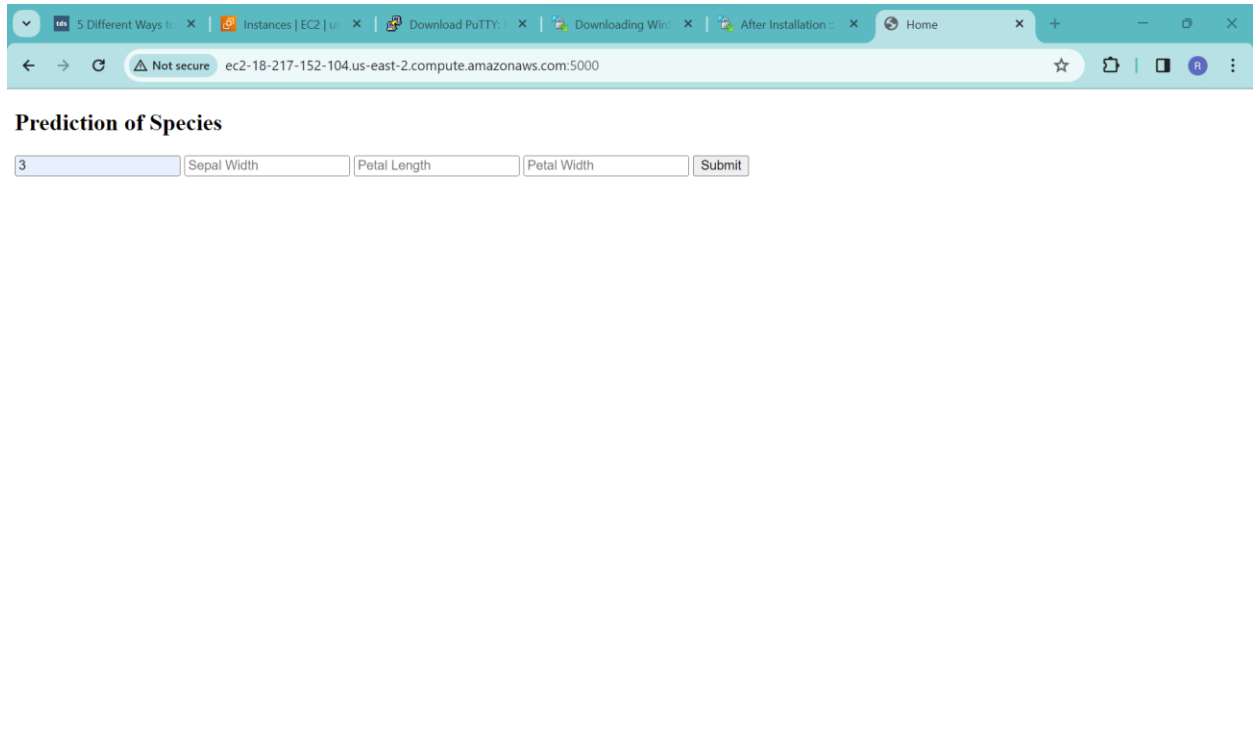


## 4. Checking the public DNS in the browser

Link to access the Web app:

<http://ec2-18-217-152-104.us-east-2.compute.amazonaws.com:5000/>

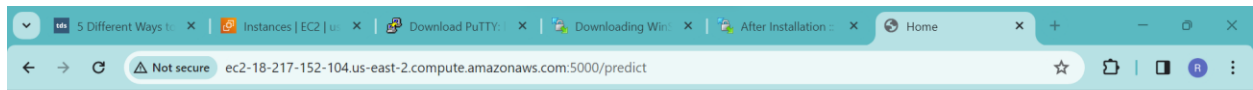
## 5. Output Screens:



The screenshot shows a web browser window with multiple tabs. The active tab is titled 'Home' and the address bar shows the URL 'ec2-18-217-152-104.us-east-2.compute.amazonaws.com:5000'. The page content is titled 'Prediction of Species' and features a form with four input fields: 'Sepal Width', 'Petal Length', and 'Petal Width'. The 'Petal Length' field is currently filled with the number '3'. To the right of these fields is a 'Submit' button. The browser's address bar also displays a 'Not secure' warning.

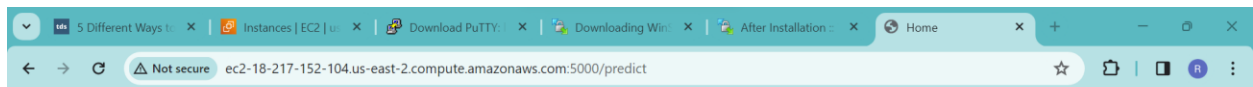
Prediction of Species

3 Sepal Width Petal Length Petal Width Submit



## Prediction of Species

Prediction: Predicted Iris Species: Iris-virginica



## Prediction of Species

Prediction: Predicted Iris Species: Iris-setosa

Prediction of Species

8

6

7

7

Submit

Prediction: Predicted Iris Species: Iris-virginica