

DEPLOY PYTHON WEB APPLICATIONS USING GIT, AWS SERVICES

INTRODUCTION

what is flask

flask is a small and lightweight python web framework that provides useful tools and features that make creating a web application in .py easier.

it gives developers flexibility and is the more accessible framework for new developers since you can build a web application quickly using only a single python file.

What is python

Python is a computer programming lang. often used to build websites and software to automate tasks and conduct data analysis.

What is PIP?

PIP is a package manager for python packages or modules.

NOTE: if your python version 3.4 or later, PIP is included by default

PIP: package installer for python.

PRE-REQUISITES:

1. AWS account (Root account)
2. IAM USER
3. TERMINAL

AWS Services &Tools:

- IAM
- VPC
- EC2
- ROUTE 53

DevOps tools

- GIT
- GITHUB
- JENKINS
- Terraform

Step-by-step procedure:

Create and log in to the AWS root account.

creation and login to the IAM user from the root user account along with EC2 full access, admin access, and programmatic passwords

Create a customized virtual cloud network along with SN s RT s IGW, SG s Eip, and NACL.

Create SG with respective ports.

SSH-22 (Replace with 22) for a secure connection.

HTTP-80

HTTPS-443

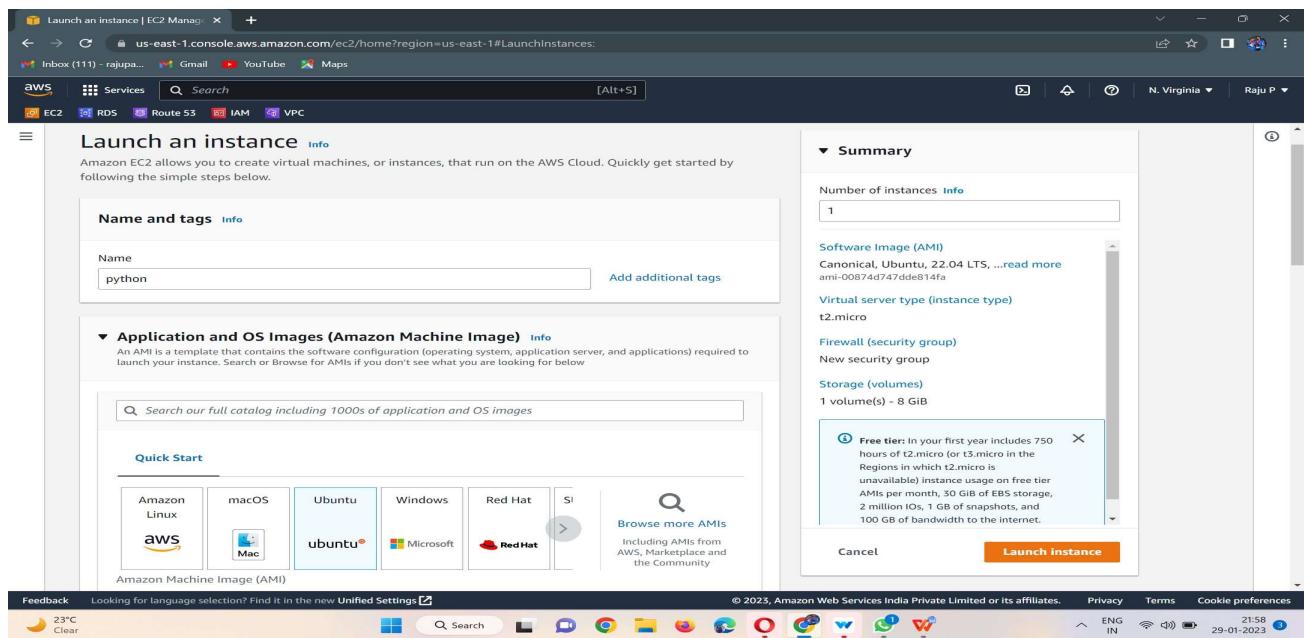
TCP- 8000,8080,9000

Module – 1: Now Creating and launching an Amazon Ubuntu EC2 instance

The screenshot shows the AWS EC2 Management Console interface. On the left, a sidebar navigation menu includes options like EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances (with sub-options for Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Scheduled Instances, Capacity Reservations), Images, Elastic Block Store (with sub-options for Volumes, Snapshots, Lifecycle Manager), and Feedback. The main content area displays a table titled 'Instances (1) Info'. The table has columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm status, and Availability Zone. One row is shown, labeled 'python' with instance ID 'i-078cd49140083bfff', which is 'Running'. The status check shows '2/2 checks passed' and 'No alarms'. The availability zone is 'us-east-1e'. Below the table, a modal window titled 'Select an instance' is open, showing the same information for the 'python' instance. The bottom of the screen shows the Windows taskbar with various pinned icons and the system tray.

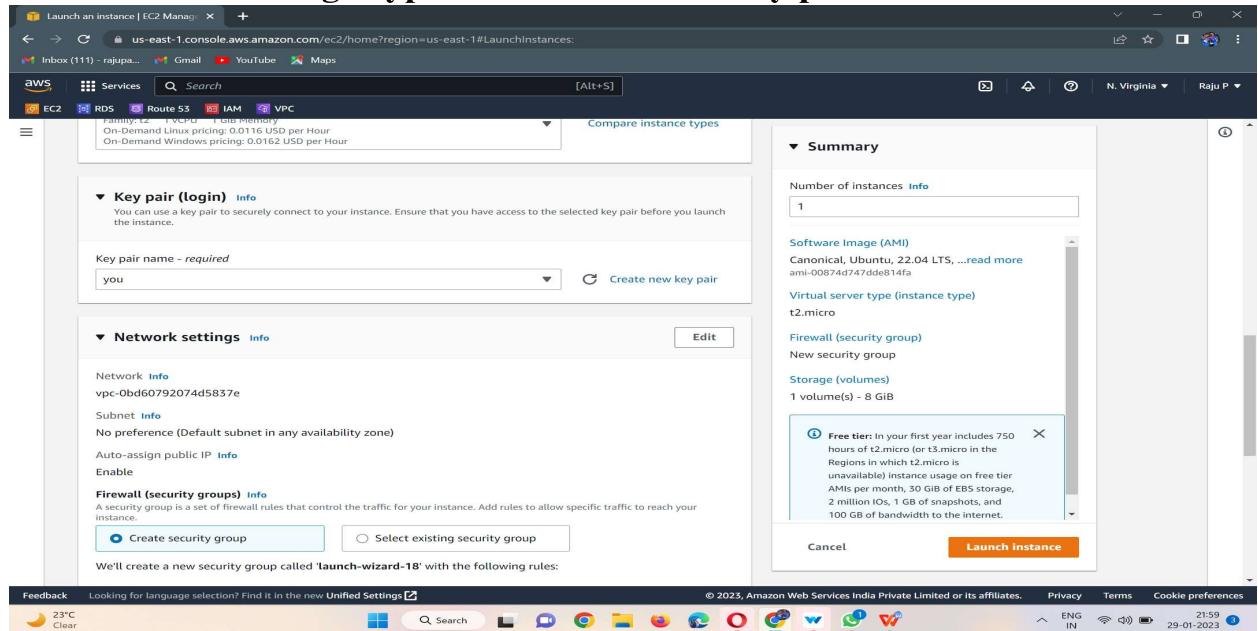
EC2: Amazon Elastic Compute Cloud (Amazon EC2) provides scalable computing capacity in the Amazon Web Services (AWS) Cloud. Using Amazon EC2 eliminates your need to invest in hardware upfront, so you can develop and deploy applications faster.

2. Choosing an AMI – With Ubuntu



- An AMI is a virtual image used to create a virtual machine within an EC2 instance
- You can also create multiple instances using a single AMI when you need instances with the same configuration.

3. Select an Existing keypair or create a new key pair.



A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below.

1. Configure the Security Group

Here, I am assigning the port numbers for the inbound rule SSH-22, 9999, 8080, 8000, 8005, 8001, and All Traffic for the outbound rule.

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sgr-009e3b868c285787d	SSH	TCP	22	Custom	
sgr-052628f9367fe7a69	Custom TCP	TCP	8081	Custom	
sgr-057ff0cb804e4a197	Custom TCP	TCP	8080	Custom	
sgr-0eebe398624e80cc4	Custom TCP	TCP	8083	Custom	
sgr-05235b41d85d350a7	Custom TCP	TCP	8084	Custom	
sgr-079537962e18f38cb	Custom TCP	TCP	8082	Custom	

2. Finally, the Instance launched an Instance. Now to connect an EC2 instance we can

- Now to the instance page and click on connect then go to SSH Client/EC2 instance c

The screenshot shows the AWS EC2 Instances page. A single instance named "python" is listed, which is running on a t2.micro instance type in the us-east-1e availability zone. The instance has a public IPv4 address of 54.237.89.106 and a private IP address of 172.31.55.163. It also has a public IPv4 DNS name of ec2-54-237-89-106.compute-1.amazonaws.com. The instance was launched on 2023-01-29 at 23:10. The AWS navigation bar includes links for EC2, RDS, Route 53, IAM, and VPC.

- By using the SSH command we are accessing our instance in Command Line Interface Terminal.

3. Update you are ubuntu machine by using this command.

➤ sudo apt-get update

```

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\REALME> cd .\Downloads
PS C:\Users\REALME\Downloads> ssh -i "you.pem" ubuntu@ec2-54-237-89-106.compute-1.amazonaws.com
The authenticity of host 'ec2-54-237-89-106.compute-1.amazonaws.com (64:f9:b:36ed:596a)' can't be established.
ED25519 key fingerprint is SHA256:1gbwMlSLSVaCokE/QZgctZhN/wUieg4svGUxau2M.
This key is not known by your system.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'ec2-54-237-89-106.compute-1.amazonaws.com' (ED25519) to the list of known hosts.

Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-1028-aws x86_64)

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

System information as of Sun Jan 29 16:51:09 UTC 2023

System load: 0.52880859375 Processes: 108
Usage of /: 19.7% of 7.57GB Users logged in: 0
Memory usage: 21% IPv4 address for eth0: 172.31.55.163
Swap usage: 0%

0 updates can be applied immediately.

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

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/<copyright>.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-55-163:~$ sudo apt update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-security InRelease [114 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-universe InRelease [99.8 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:6 http://security.ubuntu.com/ubuntu jammy/universe Translation-en [8692 kB]
Get:7 http://security.ubuntu.com/ubuntu jammy-security amd64 c-n-f Metadata [286 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [18372 kB]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [399 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [186 kB]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metadata [12.3 kB]

23:11 ENG IN 29-01-2023

```

4. Install required packages/tools related for deploy the project. Using this commands

```

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

ubuntu@ip-172-31-55-163:~$ sudo apt-get full-upgrade -y
Reading package lists... Done
Building dependency tree... Done
23 packages are going to be upgraded. Run 'apt list --upgradable' to see them.
Reading state information... Done
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following packages have been kept back:
  python3-software-properties software-properties-common ubuntu Advantage-tools update-notifier-common
The following packages will be upgraded:
  bind9-host bind9utils libkrb5-dev libkrb5-krb5-2 libkrb5crypto3 libkrb5-3 libkrb5support0
  libkrb5support0 libkrb5support0-bin liblpam-runtime libpam0g python-apt-common python3-apt python3-pkg-resources
  python3-setuptools sudo systemd-hw-hwdb
19 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 8016 kB of archives.
After this operation, 1080 kB of additional disk space will be used.
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libpam0g amd64 1.4.0-11ubuntu2.1 [60.8 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libpam-modules-bin amd64 1.4.0-11ubuntu2.1 [37.4 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libpam-modules amd64 1.4.0-11ubuntu2.1 [288 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libpam-runtime amd64 1.4.0-11ubuntu2.1 [15.2 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libkrb5support0 amd64 1.19.2-2ubuntu0.1 [32.2 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libkrb5-3 amd64 1.19.2-2ubuntu0.1 [357 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libkrb5-krb5-2 amd64 1.19.2-2ubuntu0.1 [144 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libpam-runtime all 1.4.0-11ubuntu2.1 [40.3 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 python-apt-common all 2.4.0 [15.2 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 python3-apt amd64 2.4.0 [164 kB]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 python3-setuptools amd64 2.9.0-1.2.2 [132 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 python3-pkg-resources all 3.9.6-0.1.2ubuntu0.22.04.1 [339 kB]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 bind9-host amd64 1.19.18.1-1ubuntu1.3 [93.7 kB]
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 bind9-dnsutils amd64 1.19.18.1-1ubuntu1.3 [149 kB]
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 bind9-libs amd64 1.19.18.1-1ubuntu1.3 [1216 kB]
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 bind9-libs-all amd64 1.19.18.1-1ubuntu1.3 [695 kB]
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 git-manual all 1.9.4-1.2.34.1-1ubuntu1.6 [310 kB]
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 gpg amd64 1.2.34.1-1ubuntu1.6 [249 kB]
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 systemd-hw-hwdb all 249.11.2 [2690 B]
Fetched 8016 kB in 851.6 MB/s (23:11)
Preconfiguring packages...
(Reading database ... 63567 files and directories currently installed.)
Preparing to unpack .../libpam0g_1.4.0-11ubuntu2.1_amd64.deb ...
Unpacking libpam0g:amd64 (1.4.0-11ubuntu2.1) over (1.4.0-11ubuntu2.1) ...
Setting up libpam0g:amd64 (1.4.0-11ubuntu2.1) over (1.4.0-11ubuntu2.1) ...
(Reading database ... 63567 files and directories currently installed.)
Preparing to unpack .../libpam-modules-bin_1.4.0-11ubuntu2.1_amd64.deb ...
Unpacking libpam-modules-bin (1.4.0-11ubuntu2.1) over (1.4.0-11ubuntu2.1) ...
Setting up libpam-modules-bin (1.4.0-11ubuntu2.1) ...
(Reading database ... 63567 files and directories currently installed.)

```

- Install python by using this command.

➤ sudo apt-get install python3-pip

5. Clone the project source code from the git hub to your machine (ubuntu machine)

- sudo apt install git
 - git clone <https://github.com/Akhil90639/flask-app.py.git>

```
Windows PowerShell * sudo apt-get full-upgrade -y * ubuntu@ip-172-31-55-163:~/ * ubuntu@ip-172-31-55-163:~/ * ubuntu@ip-172-31-55-163:~/ * + - Restoring services... service restarts being deferred: systemctl restart systemd-logind.service systemctl restart unattended-upgrades.service systemctl restart user@1000.service No containers need to be restarted. No user sessions are running outdated binaries. No VM guests are running outdated hypervisor (qemu) binaries on this host. ubuntu@ip-172-31-55-163:~$ git clone https://github.com/kallasrikanth1999/fish.git Cloning into 'fish'... remote: Counting objects: 10765, done. remote: Compressing objects: 100% (10/10), done. remote: Writing objects: 100% (10/10), done. 10765 objects, 1.00 MiB | 19.40 MiB/s, done. Resolving deltas: 100% (884/884), done. Updating files: 100% (10267/10267), done. ubuntu@ip-172-31-55-163:~$ ls fish ubuntu@ip-172-31-55-163:~$ cd fish ubuntu@ip-172-31-55-163:~/fish$ pip3 install -r requirements.txt Downloading click==8.1.3 (96 kB) 96.6/96.6 kB 2.4 MB/s eta 0:00:00 Collecting colorama==0.4.5 Downloading colorama-0.4.5-py2.py3-none-any.whl (16 kB) Collecting Flask==2.2.2 Downloading Flask-2.2.2-py3-none-any.whl (101 kB) 101.5/101.5 kB 10.0 MB/s eta 0:00:00 Collecting importlib-metadata==4.12.0 Downloading importlib_metadata-4.12.0-py3-none-any.whl (21 kB) Collecting Jinja2==3.1.2 Downloading Jinja2-3.1.2-py3-none-any.whl (15 kB) Collecting Jinja2==3.1.2 Downloading Jinja2-3.1.2-py3-none-any.whl (133 kB) 133.1/133.1 kB 11.1 MB/s eta 0:00:00 Collecting joblib==1.1.0 Downloading joblib-1.1.0-py2.py3-none-any.whl (306 kB) 307.0/307.0 kB 24.1 MB/s eta 0:00:00 Collecting MarkupSafe==2.1.1 Downloading MarkupSafe-2.1.1-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (25 kB) Collecting numpy==1.23.3 Downloading numpy-1.23.3-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (17.1 MB) 17.1/17.1 kB 33.5 MB/s eta 0:00:00 Collecting pandas==1.4.4 Downloading pandas-1.4.4-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (11.6 MB) 11.6/11.6 kB 46.3 MB/s eta 0:00:00 Collecting python-dateutil==2.8.2 Downloading python_dateutil-2.8.2-py2.py3-none-any.whl (247 kB) 247.0/247.7 kB 28.6 MB/s eta 0:00:00 Collecting pytz==2022.2.1
```

- Now, go to the source code directory

- cd python
- Now install requirements packages by using this command.

- pip3 install -r requirements.txt

```
ubuntu@ip-172-31-55-163:~/fish$ pip3 install -r requirements.txt
Defaulting to user installation because normal site-packages is not writeable
Collecting click==8.1.3
  Downloading click-8.1.3-py3-none-any.whl (96 kB)
Collecting colorama==0.4.5
  Downloading colorama-0.4.5-py2.py3-none-any.whl (16 kB)
Collecting Flask==2.2.2
  Downloading Flask-2.2.2-py3-none-any.whl (181 kB)
Collecting importlib-metadata==4.12.0
  Downloading importlib_metadata-4.12.0-py3-none-any.whl (21 kB)
Collecting itsdangerous==2.1.2
  Downloading itsdangerous-2.1.2-py3-none-any.whl (15 kB)
Collecting Jinja2==3.1.2
  Downloading Jinja2-3.1.2-py3-none-any.whl (133 kB)
Collecting joblib==1.1.0
  Downloading joblib-1.1.0-py2.py3-none-any.whl (306 kB)
Collecting MarkupSafe==2.1.1
  Downloading MarkupSafe-2.1.1-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (25 kB)
Collecting numpy==1.23.3
  Downloading numpy-1.23.3-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (17.1 MB)
Collecting pandas==1.4.4
  Downloading pandas-1.4.4-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (11.6 MB)
Collecting python-dateutil==2.8.2
  Downloading python_dateutil-2.8.2-py2.py3-none-any.whl (247 kB)
Collecting pytz==2022.2.1
```

- Here, after running python3 app.py it will generate a localhost IP address we can't access the web app with that IP address. then here we want to edit the file app.py with some details

- sudo vi app.py
- Go to the file and paste this text and save the file.

```
app.run(host='0.0.0.0', port=9999, debug=True)
```

```
from flask import Flask, render_template, url_for, request, redirect
import numpy as np
import pandas as pd
import joblib
import pickle

app = Flask(__name__)

model = joblib.load('RFR.pkl')
onehot = joblib.load('five_joblib')

@app.route('/')
@app.route('/main')
def main():
    return render_template('main.html')

@app.route('/predict', methods=['POST'])
def predict():
    int_features = [[x for x in request.form.values()]]
    c = onehot['model'].columns
    df = pd.DataFrame(int_features, columns=c)
    l = onehot.transform(df.iloc[:, :3])
    c = onehot.get_feature_names_out()
    df = pd.DataFrame(l, columns=c)
    l2 = df.iloc[:, 5:]
    final = pd.concat([l2, t], axis=1)
    result = model.predict(final)
    print("The Result is : ", result)

    print(int_features)
    return render_template('main.html', prediction_text=" The Estimated Fuel consumption Rating is: {}".format(result))

if __name__ == "__main__":
    app.run(host = '0.0.0.0', port=9999, debug =True)
-- INSERT --
```

- Now Run the flask server by using the below command

➤ python3 app.py

```
3 pandas<1.4.4 python-dateutil<2.8.2 pytz<2022.2.1 scikit-learn<1.1.2 Scipy<1.9.1 sklearn<0.0 threadpoolctl<3.1.0 zipp<3.8.1
ubuntu@ip-172-31-55-163:~/flask$ sudo vi app.py
ubuntu@ip-172-31-55-163:~/flask$ python3 app.py
/home/ubuntu/.local/lib/python3.10/site-packages/sklearn/base.py:329: UserWarning: Trying to unpickle estimator DecisionTreeRegressor from version 1.1.1 when using version 1.1.2. 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:329: UserWarning: Trying to unpickle estimator RandomForestRegressor from version 1.1.1 when using version 1.1.2. 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:329: UserWarning: Trying to unpickle estimator OneHotEncoder from version 1.1.1 when using version 1.1.2. 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 "app"
  * Debug mode: on
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://172.31.55.163:8080
Press CTRL+C to quit
* Restarting with stat
/home/ubuntu/.local/lib/python3.10/site-packages/sklearn/base.py:329: UserWarning: Trying to unpickle estimator DecisionTreeRegressor from version 1.1.1 when using version 1.1.2. 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:329: UserWarning: Trying to unpickle estimator RandomForestRegressor from version 1.1.1 when using version 1.1.2. 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:329: UserWarning: Trying to unpickle estimator OneHotEncoder from version 1.1.1 when using version 1.1.2. 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:329: UserWarning: Trying to unpickle estimator OneHotEncoder from version 1.1.1 when using version 1.1.2. 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(
Press CTRL+C to quit
```



- Now copy your EC2 instance public IP and give the port number and search in the web browser
- Similarly deploy another application by using the below command.
- Clone the python application code.

➤ git clone <https://github.com/kallasrikanth1999/Agri.git>

➤ sudo vi app.py

- go to the file and paste this text and save the file.

app.run(host='0.0.0.0', port=8080, debug=True)

Now run the flask server by using the below command.

➤ python3 app.py

```
X11Forwarding yes
#X11DisplayOffset 10
#X11UseLocalhost yes
#PermitTty yes
#PrintMotd no
#PrintLastLog yes
#TCPKeepAlive yes
#UseLog yes
#UseVidModeSeparation sandbox
#PermitUserEnvironment no
#Compression delayed
#ClientAliveInterval 0
#ClientAliveCountMax 3
#ShowPatchLevel no
#UseDNS yes
#PidFile /var/run/sshd.pid
#PortStart 10230:10231
#PermitTunnel no
#ChrootDirectory none
#VersionAddendum none
# no default banner path
#Banner none

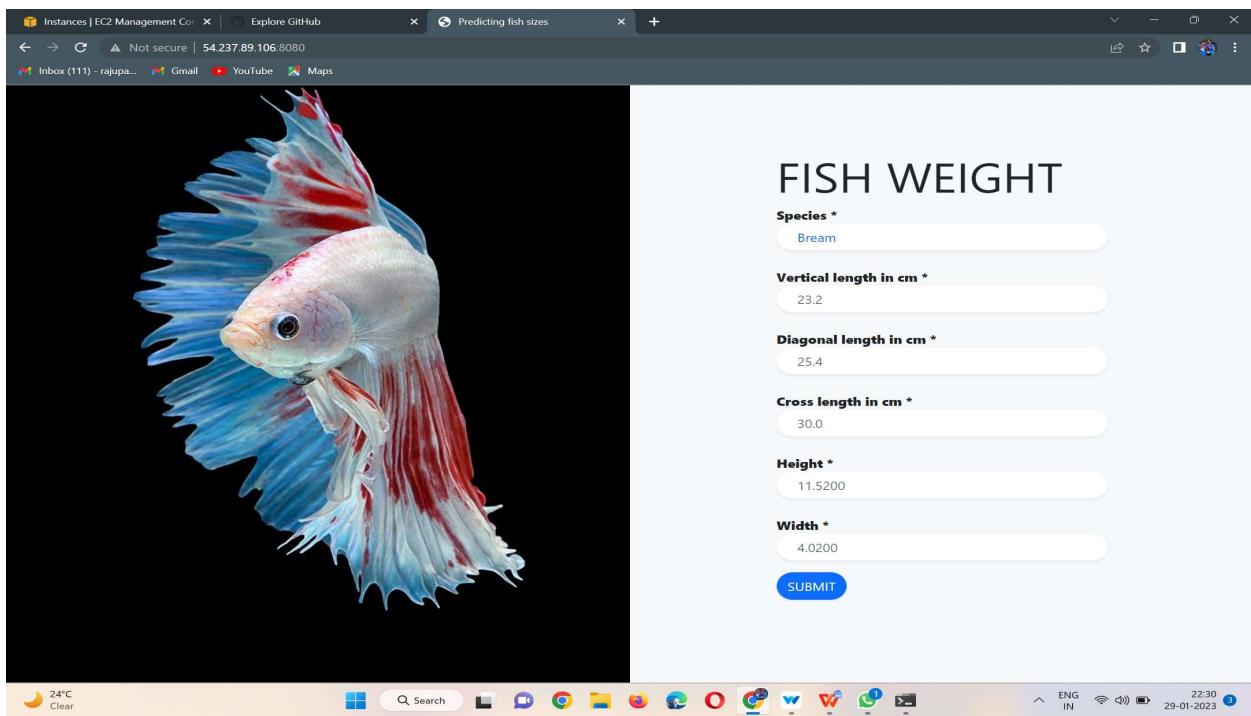
# Accept locale-related environment variables
AcceptEnv LANG LC_CTYPE LC_NUMERIC LC_TIME LC_COLLATE LC_MONETARY LC_MESSAGES
AcceptEnv LC_PAPER LC_NAME LC_ADDRESS LC_TELEPHONE LC_MEASUREMENT
AcceptEnv LC_IDENTIFICATION LC_ALL LANGUAGE
AcceptEnv XMODIFIERS

# override default of no subsystems
Subsystem sftp /usr/libexec.openssh/sftp-server

# Example of overriding settings on a per-user basis
#Match User anonymous
#   X11Forwarding no
#   PrintMotd no
#   PermitTty no
#   ForceCommand cvs server

AuthorizedKeysCommand /opt/aws/bin/sic_run_authorized_keys %u %f
AuthorizedKeyCommandUser ec2-instance-connect
AuthenticationMethods publickey,keyboard-interactive
-- INSERT --
```

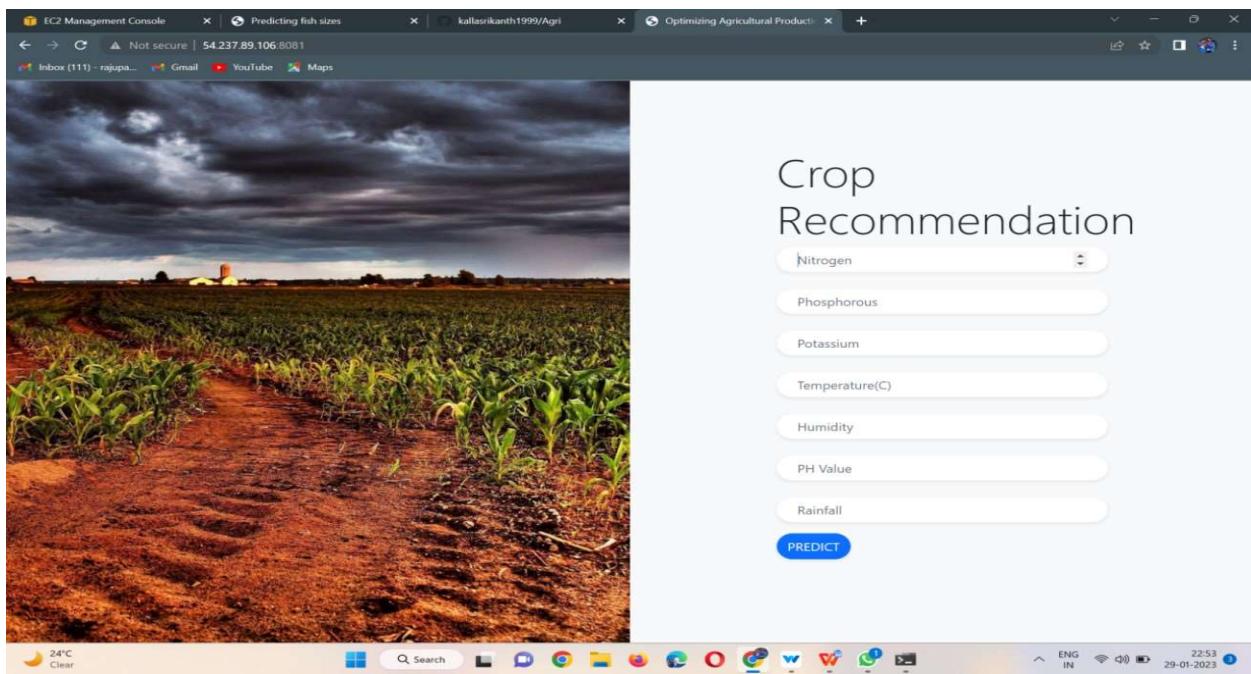




- Similarly deploy another application by using the below command.
- Clone the python application code.

➤ git clone <https://github.com/kallasrikanth1999/fish.git>

- go to the file and paste this text and save the file.
➤ sudo vi app.py
app.run(host='0.0.0.0', port=8000, debug=True)
- Now run the flask server by using the below command.
➤ python3 app.py

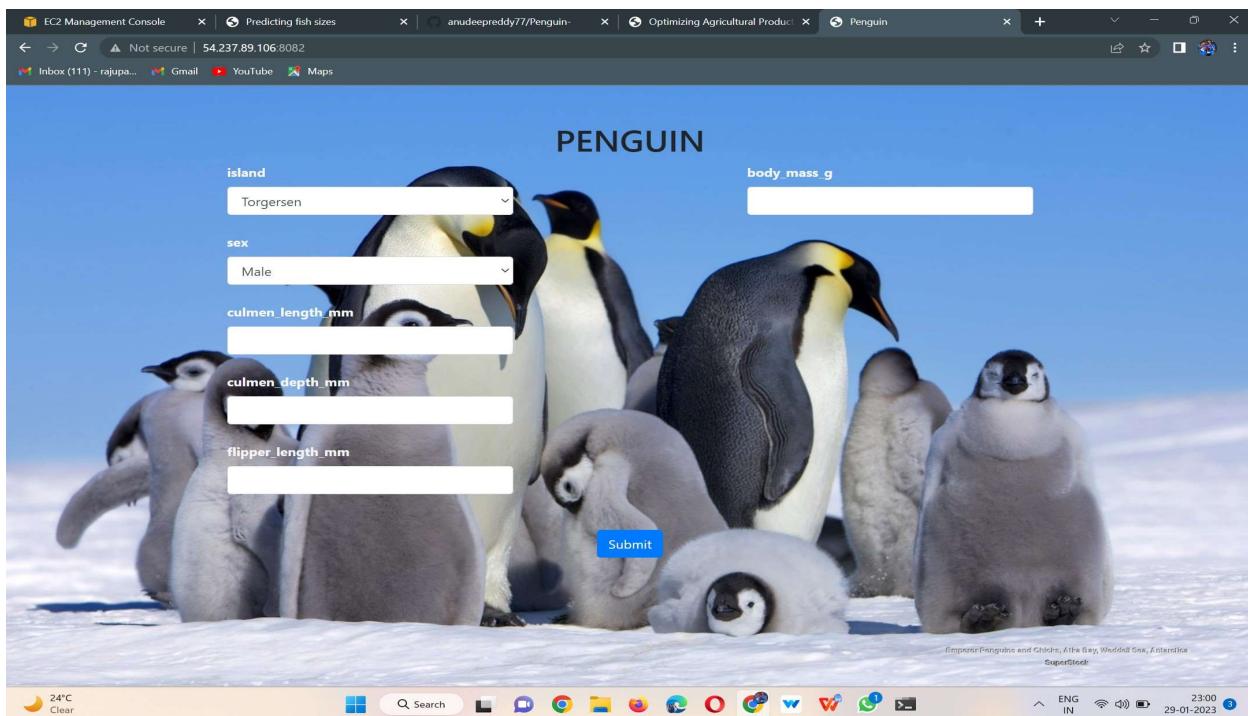


- Similarly deploy another application by using the below command.
- Clone the python application code.
 - git clone <https://github.com/kallasrikanth1999/indian-liver-patients.git>
- go to the file and paste this text and save the file.
 - sudo vi app.py

```
app.run(host='0.0.0.0', port=8001, debug=True)
```

Now run the flask server by using the below command.

```
➤ python3 app.py
```



- Clone the python application code.
 - `git clone https://github.com/TGouriSankar/flight-perdiction.git`
- go to the file and paste this text and save the file.
 - `sudo vi app.py`

```
app.run(host='0.0.0.0', port=8005, debug=True)
```

Now run the flask server by using the below command.

➤ `python3 app.py`

Instances | EC2 Manager | Predicting fish sizes | anudeepreddy77/Media | Optimizing Agricultural | Penguin | Document

Not secure | 54.237.89.106:8083

Inbox (111) - raju... | Gmail | YouTube | Maps

Home Contact Help

Know your Medical Insurance Charges



Sex: male

Smoker: no

Region: Southwest

Age: [empty input field]

BMI: [empty input field]

Children: [empty input field]

Submit

24°C Clear

EC2 Manager | Predicting fish sizes | Raju-112/flight | Optimizing Ag | Penguin | Document | New Tab | Flight Price Pre

Not secure | 54.237.89.106:8084

Inbox (111) - raju... | Gmail | YouTube | Maps

FLIGHT PRICE



Which Airline you want to travel?
select you are airline

Source:
select

Destination:
select

Total Stops:
Non-Stop

Month:
month

Day:
day

Submit

23:05 ENG IN 29-01-2023

23:10 ENG IN 29-01-2023

