

The screenshot shows a JupyterLab environment with a file explorer on the left and a code editor in the center. The file explorer shows a directory structure with files like 'templates', 'app.ipynb', 'linear_regr...', and 'model.ipynb'. The code editor displays a Python script for a simple model deployment using Flask and joblib. The script includes imports for Flask, render_template, request, jsonify, joblib, and numpy. It defines a Flask app, loads a pre-trained model, and implements routes for a home page and a prediction endpoint. The prediction endpoint takes input data from a form and returns the predicted output as a string. The script also includes a main block to run the app.

```
[1]: from flask import Flask, render_template, request, jsonify
import joblib
import numpy as np

app = Flask(__name__)

# Load the pre-trained model
model = joblib.load('linear_regression_model.joblib')

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

@app.route('/predict', methods=['POST'])
def predict():
    # Get the input data from the form
    input_data = float(request.form['input_data'])

    # Make a prediction using the model
    prediction = model.predict([[input_data]])

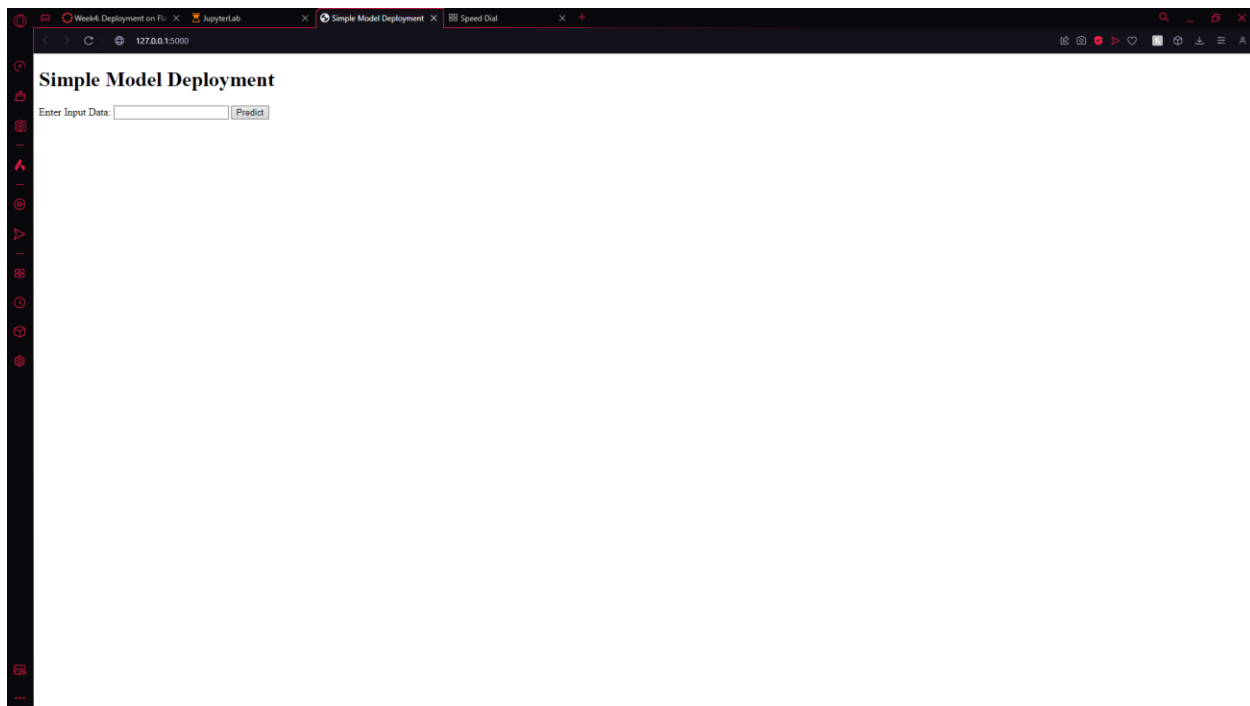
    # Format the prediction as a string
    result = f'Predicted Output: {prediction[0]:.2f}'

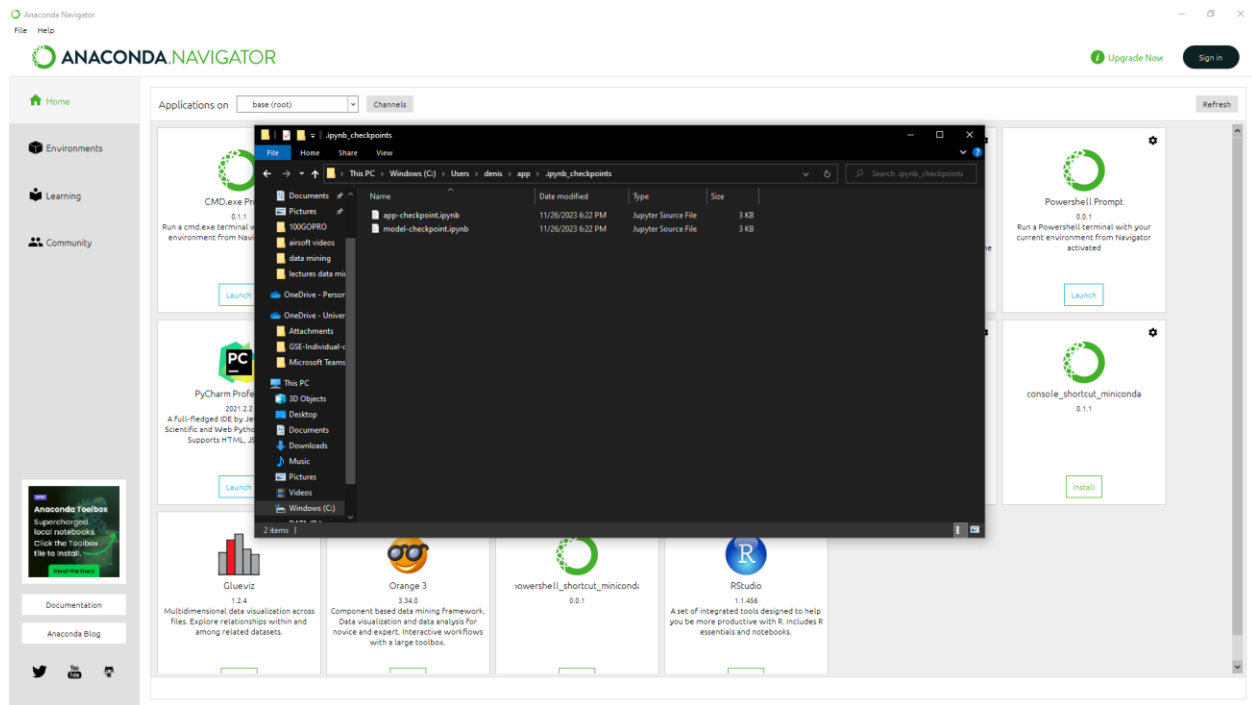
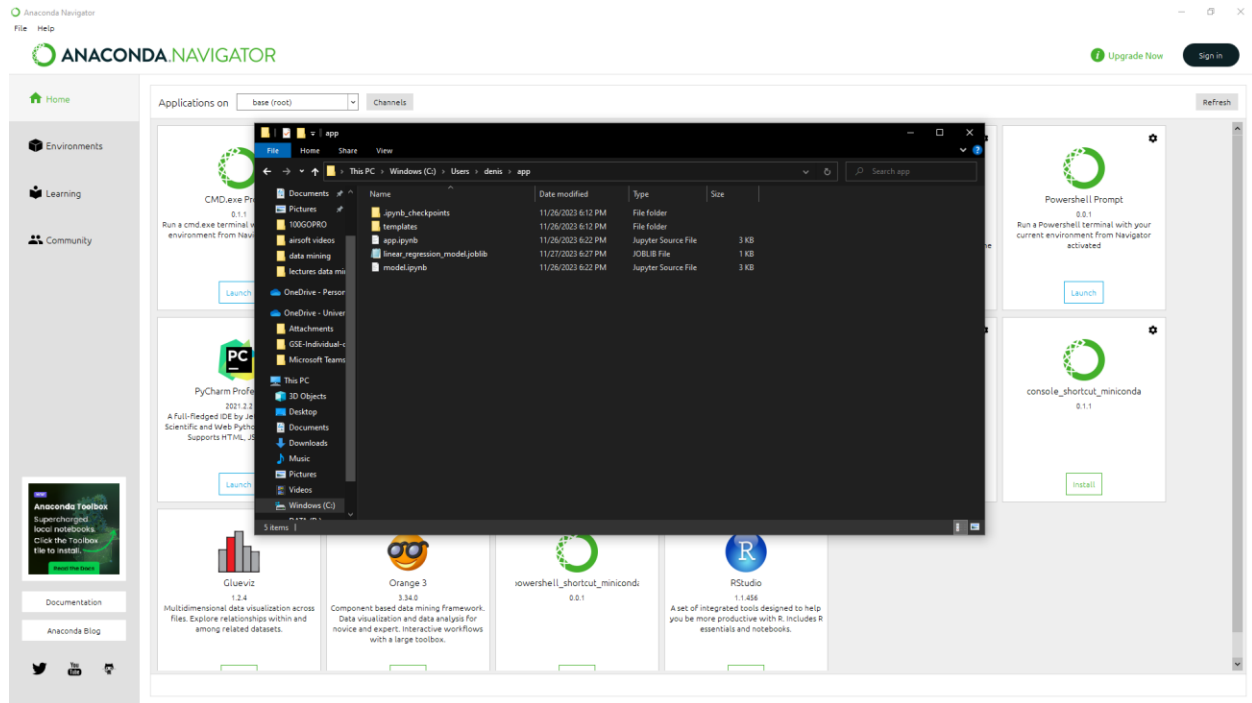
    return render_template('index.html', result=result)

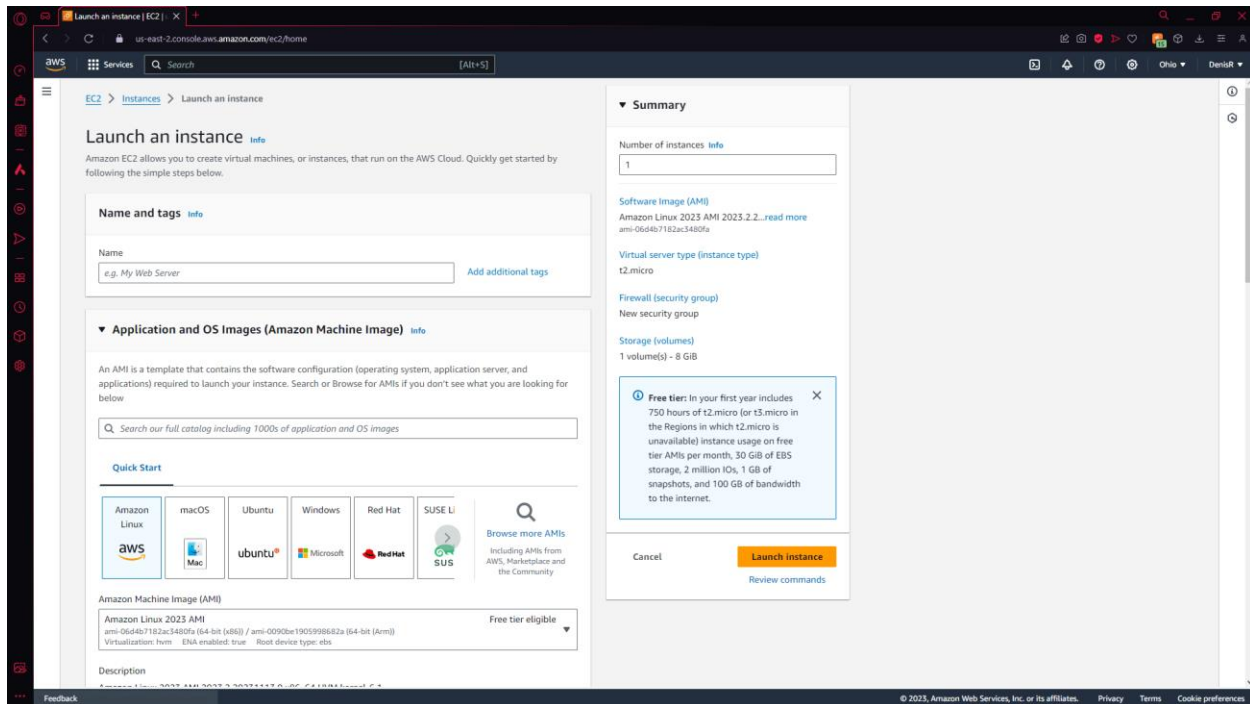
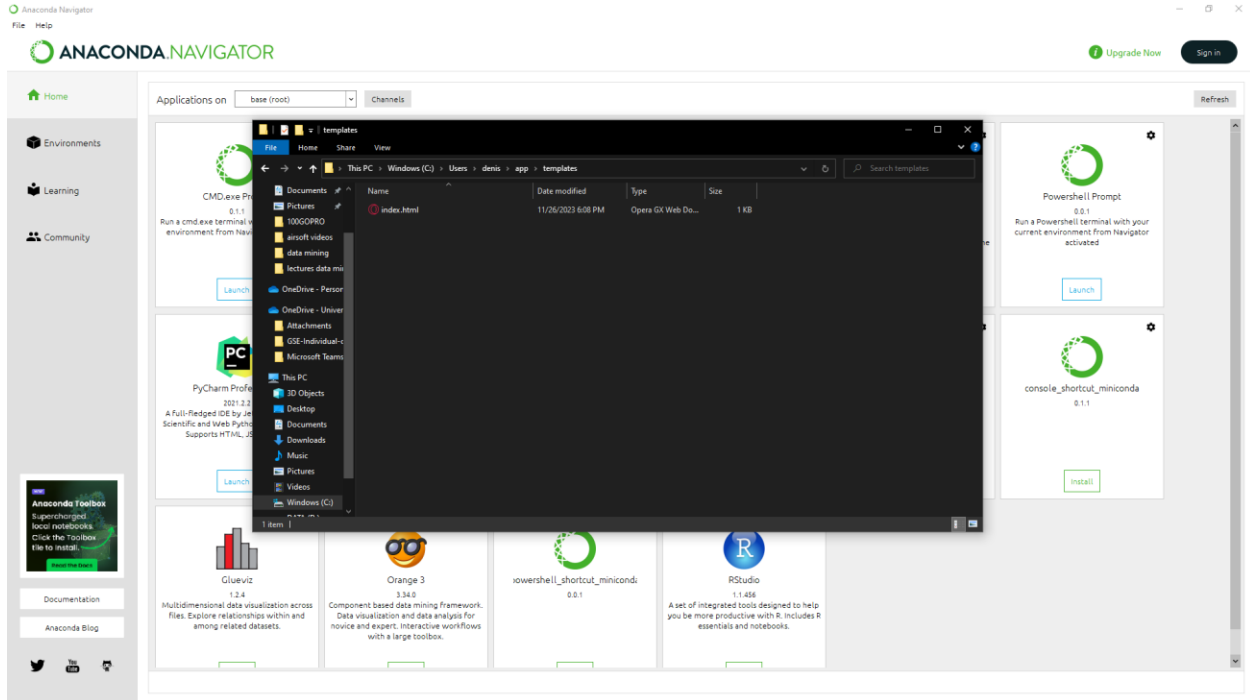
if __name__ == '__main__':
    app.run()

* Serving Flask app "main_" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: off
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
127.0.0.1 - - [26/Nov/2023 18:13:18] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [26/Nov/2023 18:13:26] "POST /predict HTTP/1.1" 200 -
127.0.0.1 - - [26/Nov/2023 18:13:30] "POST /predict HTTP/1.1" 200 -
127.0.0.1 - - [26/Nov/2023 18:13:32] "POST /predict HTTP/1.1" 200 -

[ ]:
```







Launch an instance | EC2 | +

us-east-2.console.aws.amazon.com/ec2/home

Services

64-bit (x86) ami-0d33bc366243f524a Verified provider

▼ Instance type info | Get advice

Instance type

t2.micro
Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Linux base pricing: 0.0116 USD per Hour
On-Demand SUSE base pricing: 0.0116 USD per Hour
On-Demand Windows base pricing: 0.0162 USD per Hour
On-Demand RHEL base pricing: 0.0116 USD per Hour

Free tier eligible

All generations

Compare instance types

▼ Key pair (login) info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

Select

Create new key pair

▼ Network settings info

VPC - required info

vpc-0a9b3fce97023b866 (default)

Subnet info

No preference

Create new subnet

Auto-assign public IP info

Enable

▼ Summary

Number of instances info

1

Software Image (AMI)

Canonical, Ubuntu, 22.04 LTS, ...read more
ami-0d33bc366243f524a

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of snapshots, and 100 GiB of bandwidth to the internet.

Cancel

Launch instance

Review commands

Launch an instance | EC2 | +

us-east-2.console.aws.amazon.com/ec2/home

Services

64-bit (x86) ami-0d33bc366243f524a Verified provider

▼ Network settings info

VPC - required info

vpc-0a9b3fce97023b866 (default)

Subnet info

No preference

Create new subnet

Auto-assign public IP info

Enable

▼ Firewall (security groups) info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group

Select existing security group

Security group name - required

launch-wizard-1

Description - required info

launch-wizard-1 created 2023-12-05T03:02:01.612Z

Inbound Security Group Rules

Security group rule 1 (TCP, 22, 0.0.0.0/0)

Type info

ssh

Protocol info

TCP

Port range info

22

Source type info

Anywhere

Source info

0.0.0.0/0

Description - optional info

e.g. SSH for admin desktop

▼ Summary

Number of instances info

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Cancel

Launch instance

Review commands

Launch an instance | EC2 | +

us-east-2.console.aws.amazon.com/ec2/home

Services Search [Alt+S]

Type info

ssh

Protocol info

TCP

Port range info

22

Source type info

Anywhere

Source info

Q. Add CIDR, prefix list or security

Description - optional info

e.g. SSH for admin desktop

0.0.0.0/0

X

Security group rule 2 (TCP, 80, 0.0.0.0/0)

Remove

Type info

HTTP

Protocol info

TCP

Port range info

80

Source type info

Anywhere

Source info

Q. Add CIDR, prefix list or security

Description - optional info

e.g. SSH for admin desktop

0.0.0.0/0

X

Security group rule 3 (TCP, 443, 0.0.0.0/0)

Remove

Type info

HTTPS

Protocol info

TCP

Port range info

443

Source type info

Anywhere

Source info

Q. Add CIDR, prefix list or security

Description - optional info

e.g. SSH for admin desktop

0.0.0.0/0

X

Security group rule 4 (TCP, 8080)

Remove

Type info

Custom TCP

Protocol info

TCP

Port range info

8080

Source type info

Custom

Source info

Q. Add CIDR, prefix list or security

Description - optional info

e.g. SSH for admin desktop

0.0.0.0/0

X

Summary

Number of instances info

1

Software Image (AMI)

Canonical, Ubuntu, 22.04 LTS, ...read more

ami-0e83be366243f524a

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of snapshots, and 100 GB of bandwidth to the internet.

Cancel

Launch instance

Review commands

CloudShell Feedback

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Launch an instance | EC2 | +

us-east-2.console.aws.amazon.com/ec2/home

Services Search [Alt+S]

Custom

Q. Add CIDR, prefix list or security

e.g. SSH for admin desktop

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Add security group rule

Configure storage info

Advanced

1x

8

GiB

gp2

Root volume (Not encrypted)

Free tier eligible customers can get up to 30 GiB of EBS General Purpose (SSD) or Magnetic storage.

Add new volume

The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance.

Click refresh to view backup information

The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

0 x File systems

Edit

Advanced details info

Domain join directory info

Select

Create new directory

IAM instance profile info

Select

Create new IAM profile

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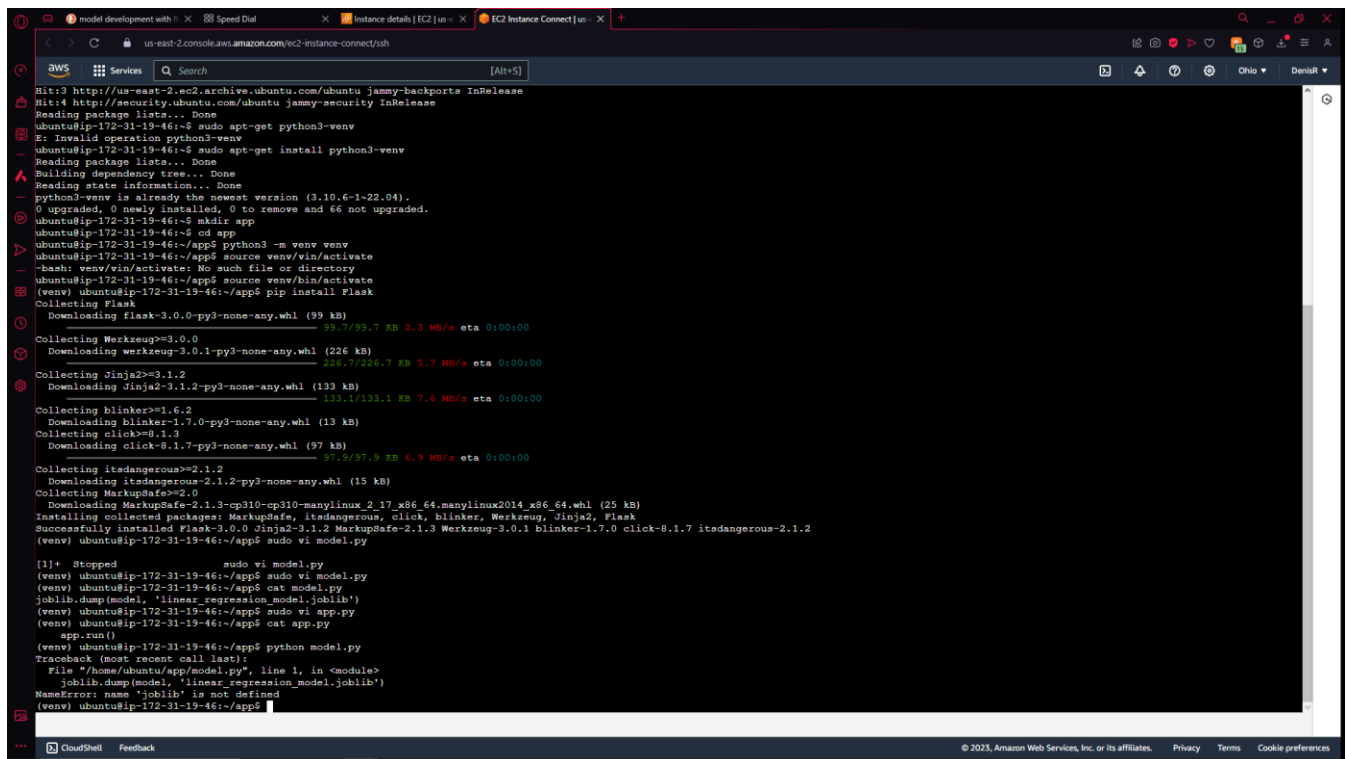
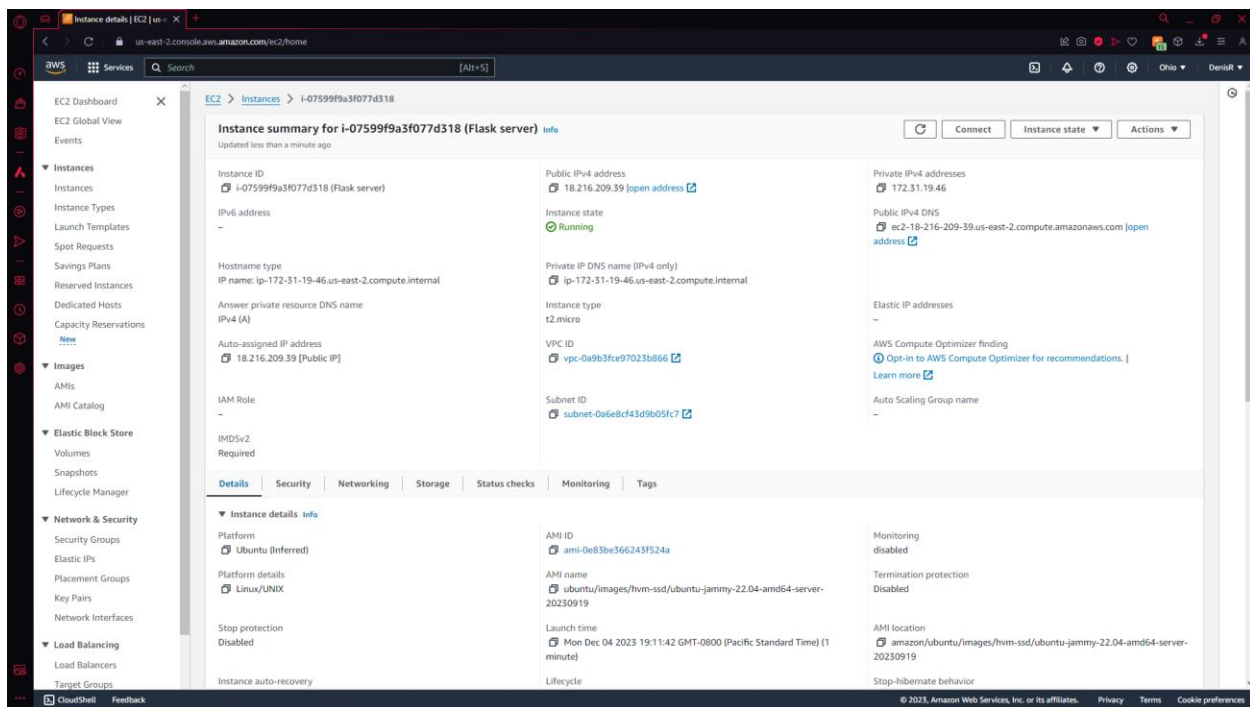
Cancel

Launch instance

Review commands

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Instance details | EC2 | us-... x EC2 Instance Connect | us-... x Simple Model Deployment | us-... x +

127.0.0.1:5000/predict

Simple Model Deployment

Enter Input Data:

Predicted Output: 32.14

Instance details | EC2 | us-... x EC2 Instance Connect | us-... x Simple Model Deployment | us-... x +

127.0.0.1:5000/predict

Simple Model Deployment

Enter Input Data:

Predicted Output: 23.74