**Steps to Deploy a Model on AWS EC2:**

1. **Create an AZure account .**
2. **Enter your personal and card details.**
3. **After account creation, go to the dashboard.**
4. **Select “Virtual Machine” from the AWS services.**
5. **Click on “Create”🡪”Create Virtual Machine”.**
6. **In the network settings, create the inbound port “7080” rule to allow “All Traffic” (not recommended for production).**
7. **After, click on the Connect.**
8. **Select “Native Connect”.**
9. **key pair (for security) and download the .pem file.**
10. **Save the .pem file in your deployment directory.**
11. **Open Command Prompt (CMD) in the folder where the .pem file is saved.**
12. **Install the necessary packages: python3, unzip, and update the system.**

sudo apt update

sudo apt install python3

sudo apt install unzip

1. **In AWS, under the SSH client tab, copy the SSH connection command. Example:**

ssh -i "sai2003.pem" ubuntu@ec2-51-20-132-230.eu-north1.compute.amazonaws.com

1. **Paste it into CMD and press Enter.**
2. **Type yes when prompted to confirm the connection.**
3. **You will now be connected to the instance.**
4. **Open another CMD window in the same directory.**
5. **To upload files, use the SFTP command (note the correction):**

sftp -i "sai2003.pem" ubuntu@ec2-51-20-132-230.eu-north1.compute.amazonaws.com

1. **Upload your deployment zip file. The zip file should contain:**
   * main.py
   * saved\_model.pkl
   * templates/
   * requirements.txt
2. **Once connected, upload the file using:**

put deployment.zip

1. **Unzip the deployment folder:**

unzip deployment.zip

1. **List the files to confirm extraction:**

ls

1. **Navigate into the deployment directory:**

cd deployment

1. **Install required Python packages:**

pip install -r requirements.txt

If errors occur, try:

pip install -r requirements.txt --break-system-packages

1. **In main.py, make sure the following line is present to run on port 7080:**

app.run(host="0.0.0.0", port=7080)

1. **Run your application:**

python3 main.py

**Notes:**

* **To edit any file on the server:**

vi <filename>

* + Press i to enter **INSERT** mode.
  + After editing, press Esc, then type :wq to save and exit.

**Once your Flask app is running with:**

python3 main.py

**And it's bound to:**

app.run(host="0.0.0.0", port=7080) [**main.py should contain this**]

You can access your site using your EC2 instance’s **public IP address** and the **port number** in your browser:

http://<your-ec2-public-ip>:7080

**Example:** If your instance's public IP is 51.20.132.230, go to:

http://51.20.132.230:7080