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

- 1. Create an AWS account as the root user.
- 2. Enter your personal and card details.
- 3. After account creation, go to the EC2 dashboard.
- 4. Select "EC2" from the AWS services.
- 5. Click on "Launch Instance".
- 6. In the network settings, set the inbound rule to allow "All Traffic" (not recommended for production).
- 7. After launching the instance, click on the instance ID.
- 8. Select the instance and click "Connect".
- 9. Create a 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

13. 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

- 14. Paste it into CMD and press Enter.
- 15. Type yes when prompted to confirm the connection.
- 16. You will now be connected to the instance.
- 17. Open another CMD window in the same directory.
- 18. 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

- 19. Upload your deployment zip file. The zip file should contain:
  - main.py
  - saved\_model.pkl

- o templates/
- o requirements.txt

# 20. Once connected, upload the file using:

put deployment.zip

# 21. Unzip the deployment folder:

unzip deployment.zip

### 22. List the files to confirm extraction:

ls

### 23. Navigate into the deployment directory:

cd deployment

# 24. Install required Python packages:

pip install -r requirements.txt

If errors occur, try:

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

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

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

# 26. Run your application:

python3 main.py

#### Notes:

# To edit any file on the server:

vi <filename>

- o Press i to enter INSERT mode.
- o 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