Hosting Web-App on AWS

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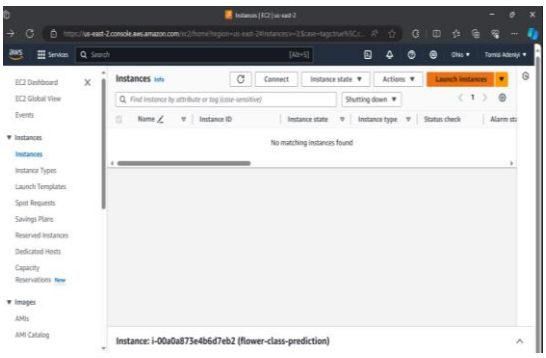
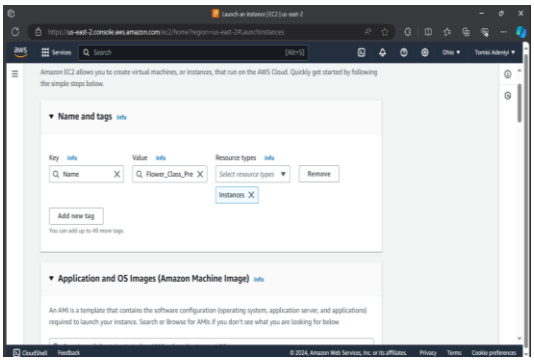
Introduction

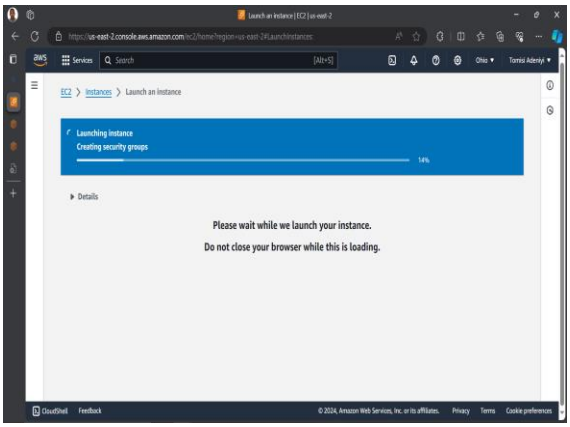
The objective of this project is to deploy a machine learning (ML) model developed as part of the Week 4 task onto the cloud.

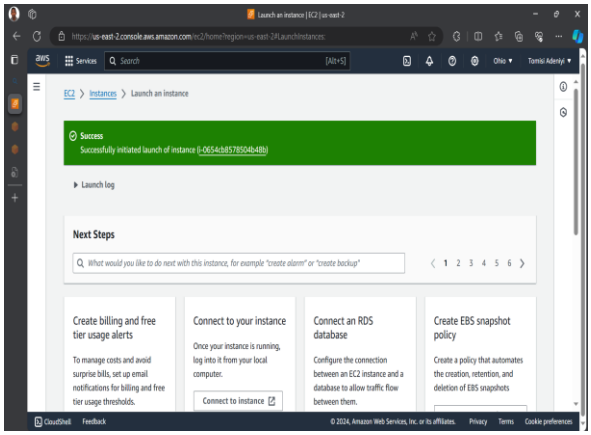
Here's a description of the steps take to host an app on AWS:

1. **Amazon Web Services (AWS) EC2 Instance Management**: This involves launching an instance, which is a virtual server in Amazon's Elastic Compute Cloud (EC2) for running applications on the Amazon Web Services (AWS) infrastructure.









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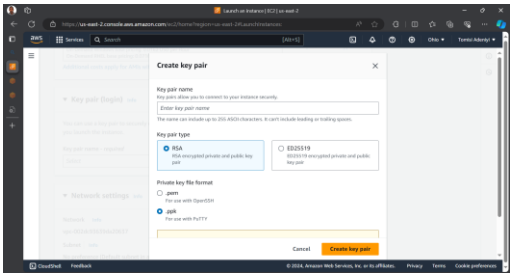
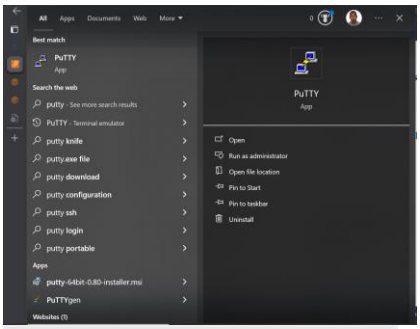
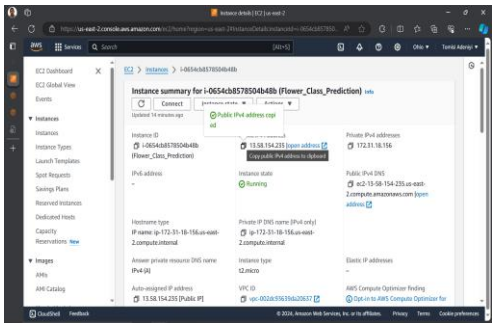
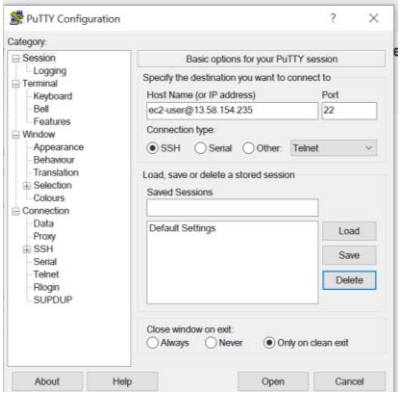
2. **SSH Key Pair Creation**: For secure login to the instance, an SSH key pair is created. This is crucial for authentication purposes.

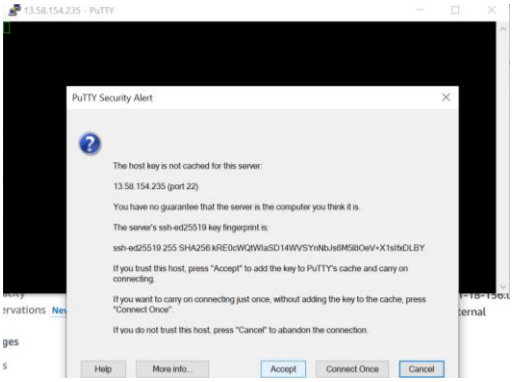


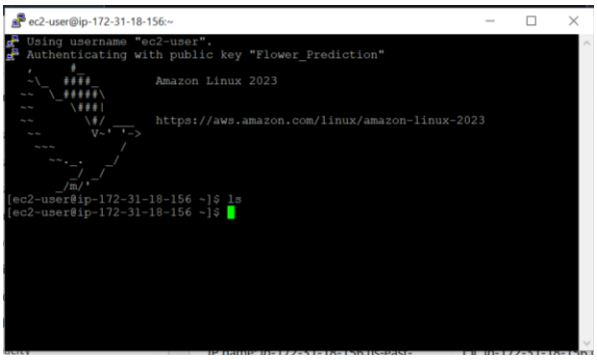
3. **Connecting to an Instance**: Connecting to the instance after setting up the instance and the SSH keys, you connected to the instance. This was done through SSH client.











Instance successfully connected

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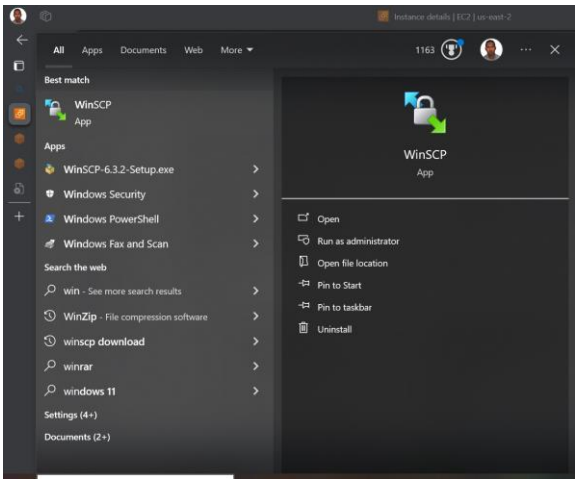
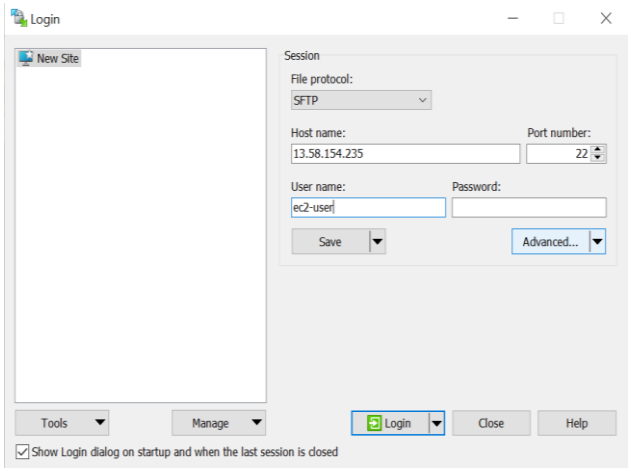
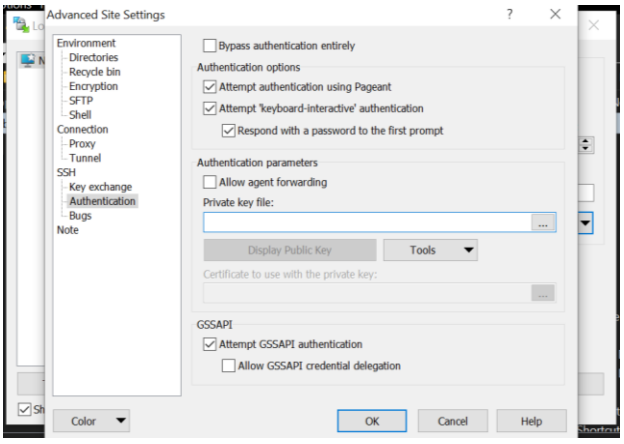
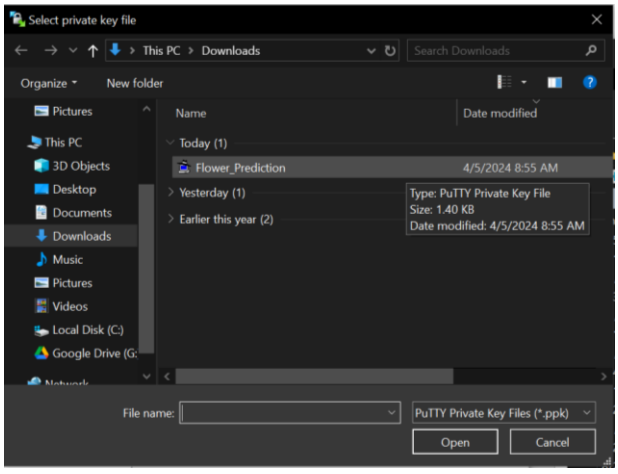
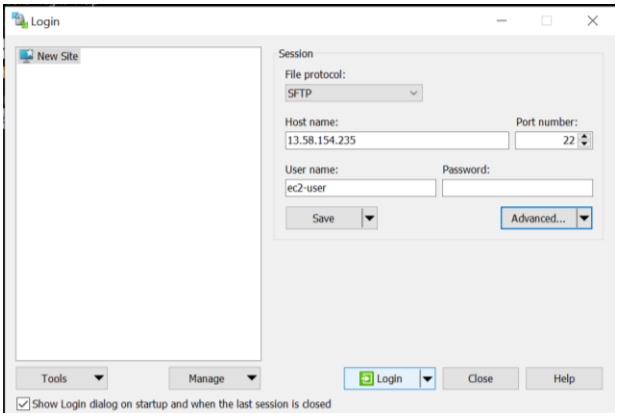
4. **File Transfers with WinSCP**: For managing files on the instance, WinSCP was used. These tools allow files transfer to/from the instance and also execute commands on the instance.

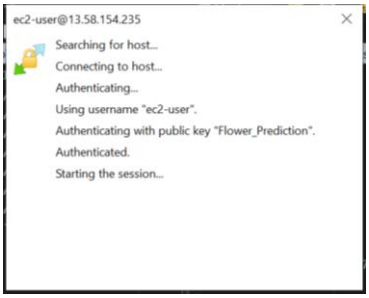












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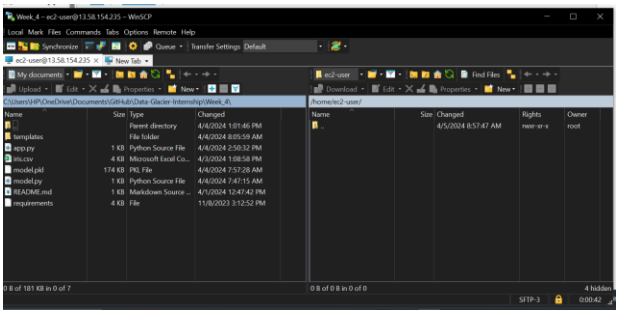

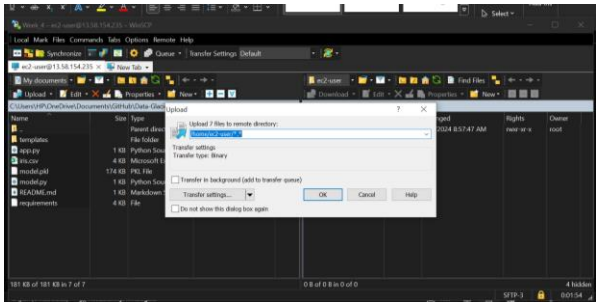

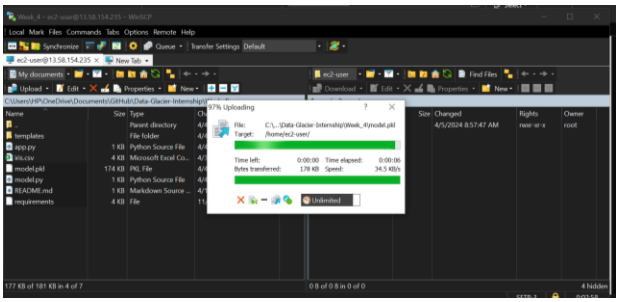

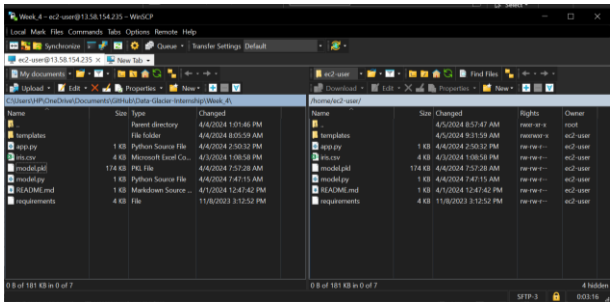

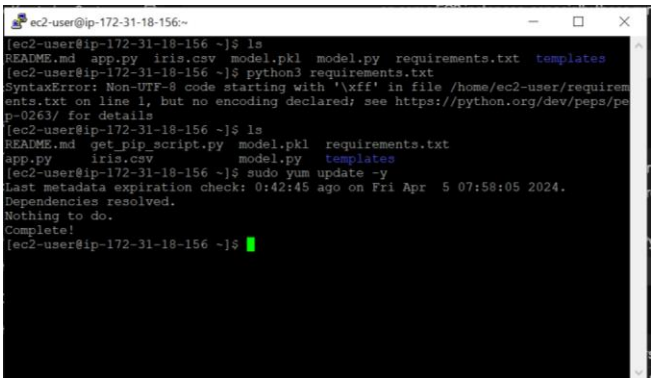

Files successfully copies to the instance

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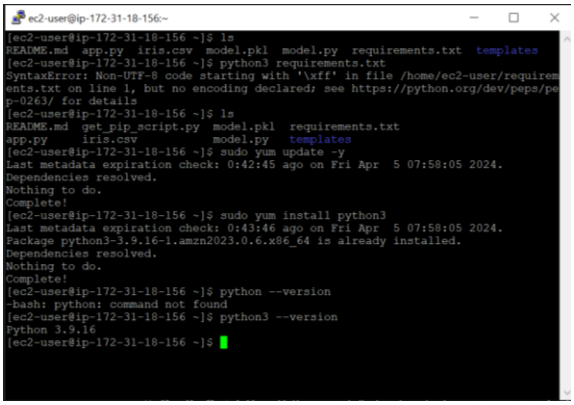
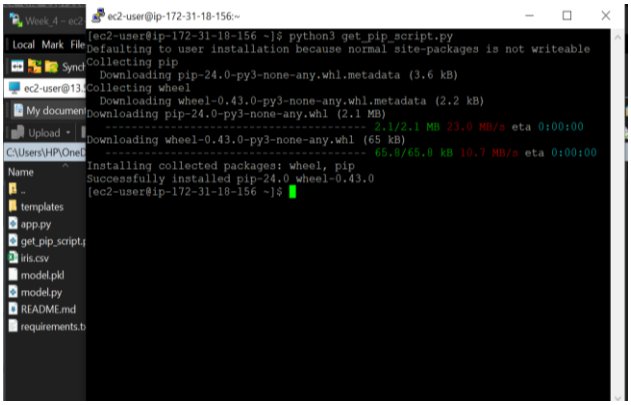
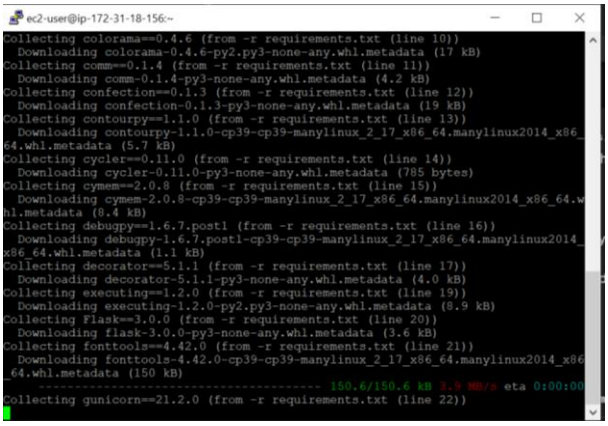
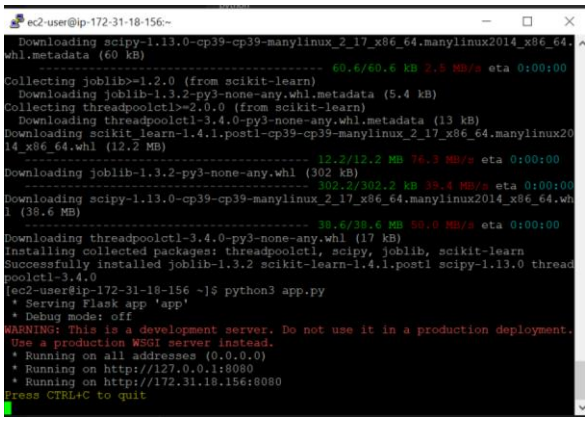
5. **Installing Packages:** After connecting to the instance, necessary packages need to be installed for the application to run. This included Python, pip, numpy, scikit-learn and other requirements.









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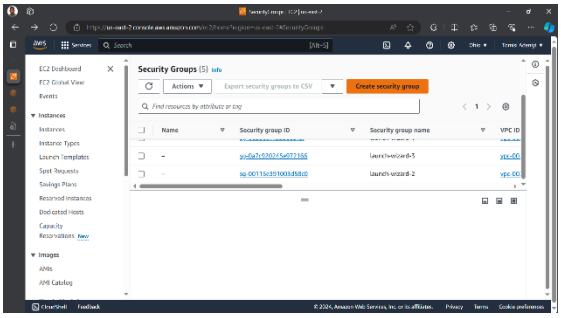
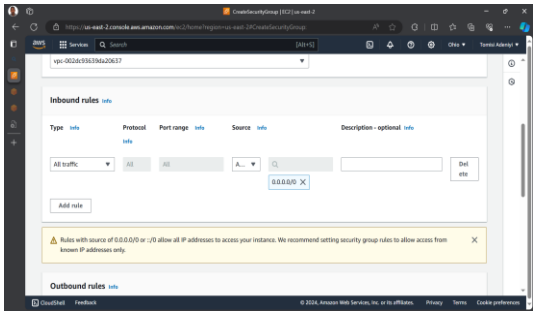
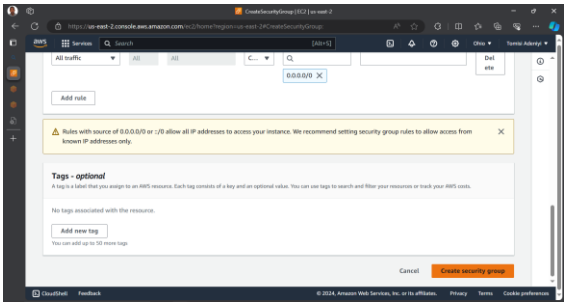
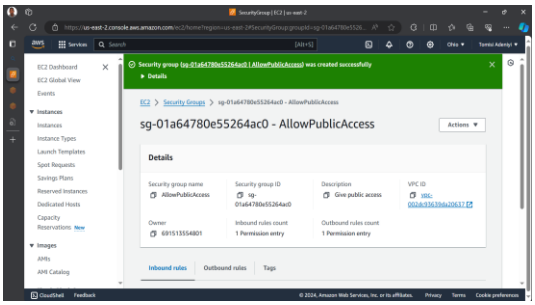
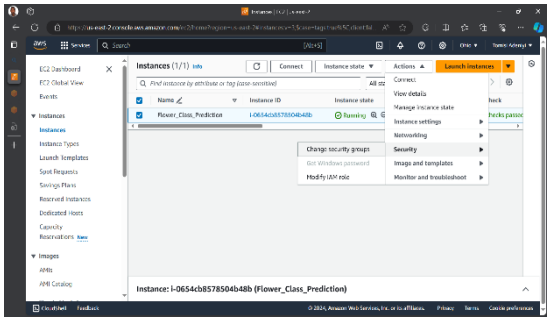
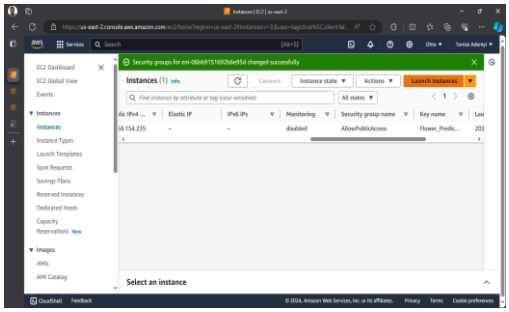
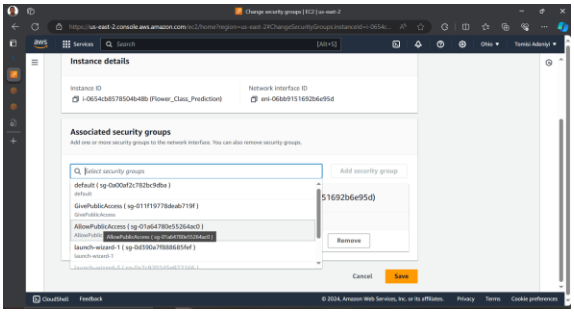
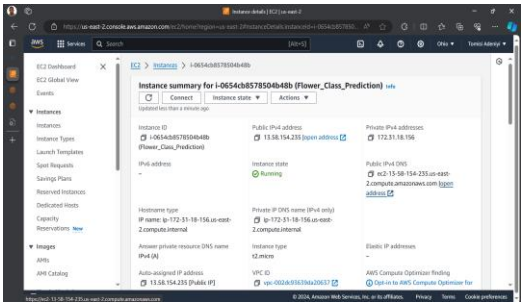
6. **Creating a New Security Group**: To allow public access to the application, created a new security group was created in AWS. A security group acts as a virtual firewall that controls the traffic for one or more instances. A security group add rules that control the inbound traffic to instances, and outbound traffic from instances. In this case, the security group to open the access gate to the public.

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7. **Running the App on AWS**: After setting up your instance, installing necessary packages, and configuring security groups, you're ready to deploy your app.