Steps in deploying ML model using AWS EC2 instance

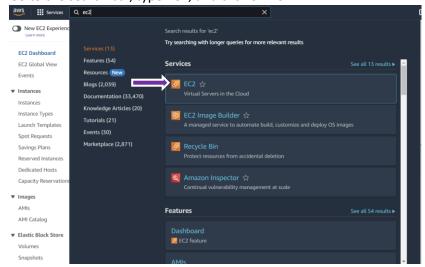
Part I

1. Create AWS Free Tier account

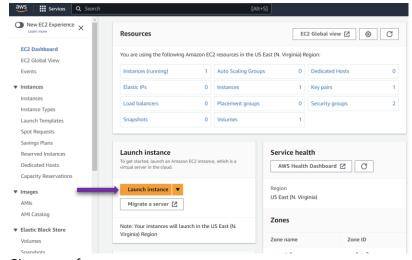


AWS Free Tier

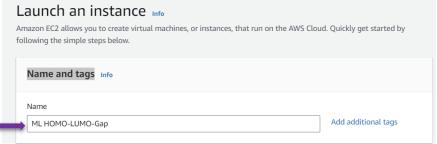
2. Go to the search bar, type EC2, and click on EC2

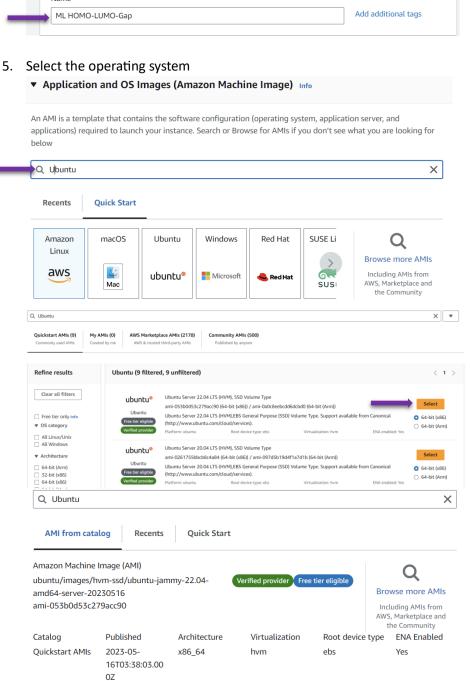


3. Click on Launch instance

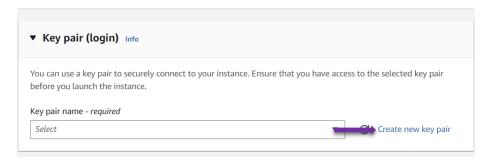


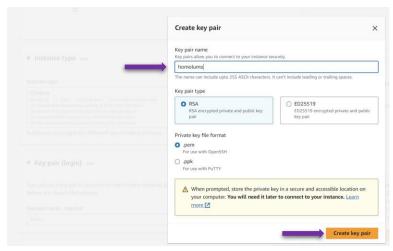
4. Give name for your app



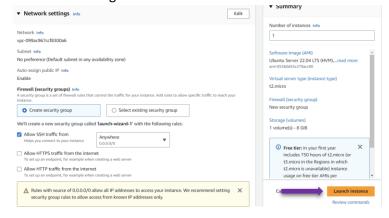


6. Create key-pair and save .pem file in your computer.





7. Use the remaining default values and launch the instance.



Part II

 Install three software packages (Putty, PuttyGen and WinSCP) https://www.putty.org/



https://www.puttygen.com/download-putty

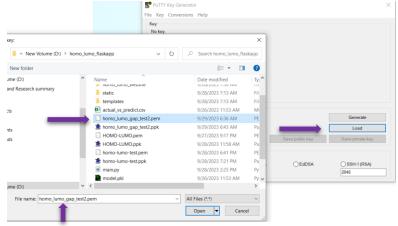
Choose the appropriate windows installer version (32-bit or 64-bit) and click on it.



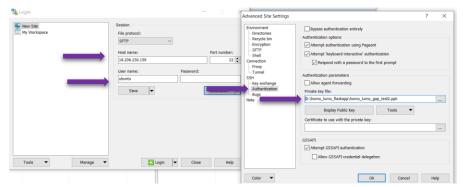
https://winscp.net/eng/download.php



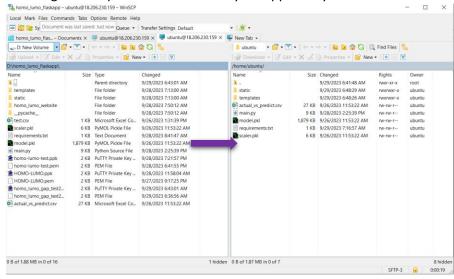
2. Generate the private key using PuTTYgen



- 3. Use WinSCP to move your files by drag and drop to your EC2 instance storage
 - First connect to EC2 instance using its public IP address or Public IPv4 DNS and using the private key generated using PuTTYgen.



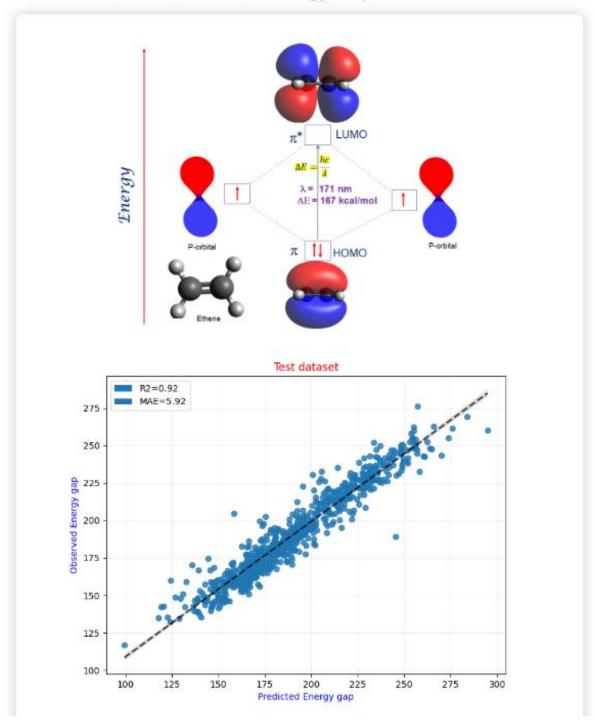
- Drag and drop files needed to run your app from your local folder to EC2 instance storage.



I deployed a ML web app for HOMO-LUMO gap prediction using AWS CE2 instance



HOMO-LUMO Energy Gap Prediction



Enter SMILES or few SMILES in single or double quations separated by comma such as ["CCC","CCO"]:

Upload CSV file:

Choose File No file chosen

Predict

See the Results Below:

	SMILES	Predicted
0	CCCCCC	262.72
1	C=CCCCC	226.81
2	C=CC=CCC	187.56
3	C=CC=CC=C	179.67
4	C=CC=CC=C	173.84

Download predicted_HOMO-LUMO energygap.csv

