### INSTALL DOCKER IN UBUNTU

https://docs.docker.com/engine/install/ubuntu/

I followed "Install using the repository" installation method (https://docs.docker.com/engine/install/ubuntu/#install-using-the-repository)

### nvidia-container-toolkit install in ubuntu

it is required to work with docker and nvidia gpus

https://github.com/NVIDIA/nvidia-docker#ubuntu-160418042004-debian-jessiestretchbuster

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This will pull an image instance for tensorflow inside docker:

sudo docker pull nvcr.io/nvidia/tensorflow:20.03-tf2-py3

sudo docker run --gpus all -it --rm -v $(pwd):/workspace nvcr.io/nvidia/tensorflow:20.03-tf2-py3

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commad to exit docker instance:

control p

control q

sudo docker ps

(copy the ID of the latest running container)

sudo docker commit ID (name i.e. hossain)

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To run docker in the present working directory where it is composed up:

sudo docker run --gpus all -it --rm -v $(pwd):/workspace hossain

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if anyone want to open jupyter notebook then follow the steps:

sudo docker run --gpus all -it -p 8080:8080 --rm -v $(pwd):/workspace hossain

jupyter notebook --ip 0.0.0.0 --no-browser --port 8080 --allow-root

to open jupyter notebook in the server pc copy paste this in browser:

localhost:8080/tree

password: token from terminal

to open jupyter notebook in personal pc. first connect to vpn then copy paste this in browser:

192.168.100.11:8080/tree

password: token from terminal

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Finally after finishing work run this command to stop all containers(If anyone not using the docker in the pc):

sudo docker stop $(sudo docker ps -aq)