1. Python3 + Libraries: sudo apt-get install python3-pip python3-setuptools python3-matplotlib python3-scipy python3-numpy python3-h5py python3-mako python3-nose libprotobuf-c1 python3-tqdm python3-werkzeug python3-wheel python3-xopen python3-appdirs python3-click python3-flask python3-packaging python3-pandas

sudo pip3 install scikit-learn opency-python scikit-image

2. Nvidia Deeplearning Libraries cuDNN and CUDA Installation FOR CPU:

If your PC does not have an NVIDIA GPU, then skip Step#3

- 3. Nvidia Deeplearning Libraries cuDNN and CUDA Installation FOR GPU: You've to get following packages from https://developer.nvidia.com/rdp/cudnn-download
 - 1. CUDA 9.0
 - 2. cuDNN 7

Install the packages using following commands.

```
sudo dpkg -i cuda-repo-ubuntu1604-9-0local_9.0.176-
1_amd64.deb
sudo apt-get update
sudo apt-get install cuda-9-0
sudo dpkg -i libcudnn7_7.0.5.15-1+cuda9.0_amd64.deb cuda-
repo-ubuntu1604-9-0-local 9.0.176-1 amd64.deb
```

4. Deep Learning Libraries

Tensorflow Installation:

- 1. (For GPU) sudo pip3 install tensorflow-gpu==1.9
- 2. (For CPU) sudo pip3 install tensorflow==1.9

Jupyter Installtion: sudo pip3 install jupyter

Keras Installation: sudo pip3 install keras