TO INSTALL ALL DRIVERS:

* Follow procedure on: <https://www.tensorflow.org/install/gpu>
* Add to .bashrc:
  + export PATH="/usr/local/cuda-10.1/bin:$PATH" export LD\_LIBRARY\_PATH="/usr/local/cuda-10.1/lib64:$LD\_LIBRARY\_PATH"
* Update .bashrc:
  + Either reboot computer or *source .bashrc* in terminal
* Install cuDNN (version 7.6 for Cuda 10.1)
  + Copy files from cuDNN folder into installed Cuda folders:
    - sudo cp -P include/cudnn.h <cuda\_path>/include
    - sudo cp -P lib64/libcudnn\* <cuda\_path>/lib64
    - sudo chmod a+r <cuda\_path>/lib64/libcudnn\*
  + Install:
    - sudo apt-get install libcupti-dev

1. Install NVIDIA GPU Driver:
   1. <https://linuxconfig.org/how-to-install-the-nvidia-drivers-on-ubuntu-18-04-bionic-beaver-linux> and using from PPA Repository method
   2. Do not use NVIDIA download and tutorial (disables graphics after reboot)
   3. Nvidia-smi command indicates CUDA version by default (it is not actually installed)
2. Install CUDA drivers:
   1. Need to install CUDA 10.1
   2. <https://linuxconfig.org/how-to-install-cuda-on-ubuntu-20-04-focal-fossa-linux>
   3. Sudo apt install cuda does not work
   4. Sudo apt install nvidia-cuda-toolkit works
3. Install cuDNN:
   1. <https://medium.com/@paulrohan/installing-tensorflow-with-cuda-cudnn-gpu-support-on-ubuntu-20-04-f6f67745750a>
   2. Download & extract entire library for Linux
   3. Run: sudo cp cuda/include/cudnn.h /usr/lib/cuda/include/ to copy files
   4. Run: sudo cp cuda/lib64/libcudnn\* /usr/lib/cuda/lib64/ to copy files
   5. Add read permission to both the above target directories: sudo chmod a+r /usr/lib/cuda/include/cudnn.h /usr/lib/cuda/lib64/libcudnn\*
   6. Add the CUDA path to your ~/.bashrc file. Open ~/.bashrc and add:
      1. echo 'export LD\_LIBRARY\_PATH=/usr/lib/cuda/lib64:$LD\_LIBRARY\_PATH' >> ~/.bashrc
      2. echo 'export LD\_LIBRARY\_PATH=/usr/lib/cuda/include:$LD\_LIBRARY\_PATH' >> ~/.bashrc
   7. Reload .basrc by running source ~/.bashrc
4. Test install by running python3 and tensorflow
   1. import tensorflow
   2. tf.config.list\_physical\_devices('GPU')

TO REMOVE ALL DRIVERS:

1. Sudo apt-get purge nvidia\*
2. Sudo apt-get autoremove
3. Sudo apt-get autoclean
4. Sudo rm -rf /usr/local/cuda
5. Delete files under var folder