1. **Setting up Jetson with JetPack**

Ref: https://github.com/dusty-nv/jetson-inference/blob/master/docs/jetpack-setup-2.md

1. **Install PyTorch and Torchvision on NVIDIA Jetson**

Ref: <https://forums.developer.nvidia.com/t/pytorch-for-jetson-version-1-8-0-now-available/72048>

Recommend PyTorch v1.6 - torchvision v0.7.0

1. **Install torch2trt**

git clone https://github.com/NVIDIA-AI-IOT/torch2trt

cd torch2trt

sudo python3 setup.py install --plugins

1. **Install other miscellaneous packages**

sudo pip3 install tqdm cython pycocotools

sudo apt-get install python3-matplotlib

1. **Install trt\_pose**

git clone https://github.com/NVIDIA-AI-IOT/trt\_pose

cd trt\_pose

sudo python3 setup.py install

1. **Download models**
2. Download the model weights using the links:

resnet18\_baseline\_att\_224x224\_A: <https://drive.google.com/open?id=1XYDdCUdiF2xxx4rznmLb62SdOUZuoNbd>

densenet121\_baseline\_att\_256x256\_B:

<https://drive.google.com/open?id=13FkJkx7evQ1WwP54UmdiDXWyFMY1OxDU>

1. Place the downloaded weights in the [tasks/human\_pose](https://github.com/NVIDIA-AI-IOT/trt_pose/blob/master/tasks/human_pose) directory
2. **Run detect\_video\_final.py**

Under trt\_pose/tasks/human\_pose

1. **Optional: install PyCharm on Jetson**
2. Download PyCharm

[**https://www.jetbrains.com/pycharm/download/#section=linux**](https://www.jetbrains.com/pycharm/download/#section=linux)

1. Install openjdk

sudo apt-get install openjdk-11-jdk

1. Run Pycharm

Go to to pycharm/bin folder, then run **./pycharm.sh .**