Pose Estimation

# Reference

<https://github.com/CMU-Perceptual-Computing-Lab/openpose>

<https://www.fritz.ai/pose-estimation/>

# Environment Version

## dGPU

Ubuntu : 18.04.5

Python : 3.6.9

GRAPHICS CARD : RTX3090

NVIDIA DRIVER : 455.32.00

CUDA : 11.1.1

cuDNN : 8.0.5.39-1

Pytorch : 1.7.1

## Jetson

JetPack : 4.5

CUDA : 10.2

TensorRT : 7.1.3

# Python With TensorRT

<https://spyjetson.blogspot.com/2020/08/xavier-nx-nvidia-ai-iot-human-pose.html>

# DeepStream

<https://developer.nvidia.com/blog/creating-a-human-pose-estimation-application-with-deepstream-sdk/>

## Getting Started

Replace the OSD binaries (x86 or Jetson) in $DEEPSTREAM\_DIR/libs with the ones provided in this repository under bin/. Please note that these are not inter-compatible across platforms.

## Path

cd /opt/nvidia/deepstream/deepstream-5.0/sources/apps/sample\_apps/deepstream\_pose\_estimation/

## Build

make

## Run

### file (original app)

./deepstream-pose-estimation-app ../../../../samples/streams/sample\_720p.h264 /home/minggatsby/

### camera

./deepstream-pose-estimation-app

# Classification Pose

<https://spyjetson.blogspot.com/2019/12/jetsonnano-human-pose-estimation-using.html>

<https://github.com/hafizas101/Real-time-human-pose-estimation-and-classification>

# Issue

DeepStream json-glib problem

<https://stackoverflow.com/questions/56085755/how-to-solve-a-problem-of-including-json-glib-h-in-a-c-file>