Anti-Candid

# Reference

<https://github.com/AlexeyAB/darknet>

<https://github.com/jkjung-avt/tensorrt_demos>

# Environment Version

Ubuntu : 18.04

Python : 3.6.9

CUDA : 10.2

cuDNN : 8.0

Pytorch : 1.7.1

JetPack : 4.4

TensorRT : 7.1.3

# Setting Environment Variables

export PATH=/usr/local/cuda-10.2/bin${PATH:+:${PATH}}

# Detect Mode

* 1. Pose Estimation & Object Detection
  2. Object Detection

# DataSet

* 1. COCO

<https://chtseng.wordpress.com/2019/12/01/%E5%BE%9Ecoco-dataset%E5%8F%96%E5%87%BA%E7%89%B9%E5%AE%9A%E7%9A%84%E7%89%A9%E4%BB%B6%E6%A8%99%E8%A8%98/>

# DataSet Reference

<https://chtseng.wordpress.com/2019/12/13/crowdhuman-dataset-%E4%BB%8B%E7%B4%B9/>

# Train

<https://alexeyab84.medium.com/scaled-yolo-v4-is-the-best-neural-network-for-object-detection-on-ms-coco-dataset-39dfa22fa982?source=friends_link&sk=c8553bfed861b1a7932f739d26f487c8>

# Proccess

Model Convert to TensorRT => Gstreamer => Result => system(command);

# Extend

<https://github.com/NVIDIA-AI-IOT/deepstream-occupancy-analytics>

<https://github.com/NVIDIA-AI-IOT/deepstream_pose_estimation>

# To Do List

* 1. DeepStream / NGC / Kubernetes / EGX

<https://developer.nvidia.com/blog/deploying-ai-apps-with-egx-on-jetson-xavier-nx-microservers/>