|  |  |
| --- | --- |
| **Source** | **Link** |
| Nvidia Documentation | <https://docs.nvidia.com/metropolis/deepstream/dev-guide/text/DS_Python_Sample_Apps.html> |
| Training Course on Deep stream for Jetson Nano | <https://www.nvidia.com/en-us/training/> |
| Hello AI World GitHub | <https://github.com/dusty-nv/jetson-inference> |
| Nvidia Forum | <https://forums.developer.nvidia.com/t/get-wrong-infer-results-while-testing-yolov4-on-deepstream-5-0/125526/12> |
| **External Links** |  |
| Youtube – Live Comparisons | <https://www.youtube.com/watch?v=7DnZBvuw7H0> |
| **Github** |  |
| YoloV5 | <https://github.com/ultralytics/yolov5> |
| YoloV4 | <https://github.com/AlexeyAB> |
| **theAIGuys Github** |  |
| Cloud | <https://github.com/theAIGuysCode/YOLOv4-Cloud-Tutorial> |
| Object Detection | <https://github.com/theAIGuysCode/yolov4-custom-functions> |
| YoloV4 on deepstream using jetson nano | <https://blog.ml6.eu/nvidia-deepstream-quickstart-9147dd49a15d> |

External Links

Use Case: Video Processing and Object Detection

|  |  |  |  |
| --- | --- | --- | --- |
| Model | FPS | Total time | Comments on Accuracy |
| YoloV4 | 2.35 | 12min for 1 minute Video |  |
| YoloV3 | 11 fps | 2 min for 1 minute video |  |
| YoloV3-tiny | 25 fps | 1 minute for 1 minute video |  |

Use Case: Live Webcam

DEEP STREAM

Plugins:

Gst-nvdewarper plugin – Dewarps images and videos from fisheye cameras.

Why Dockers?

https://www.youtube.com/watch?v=LfMs0AN4ayA