

Setting up Al NVIDIA JETSON





Content

- Discussion about some useful libraries
 - OpenCV, PyTorch etc.
- Installing Python and other supporting libraries
- OpenCV installation with CUDA support
- PyTorch and TorchVision Installation



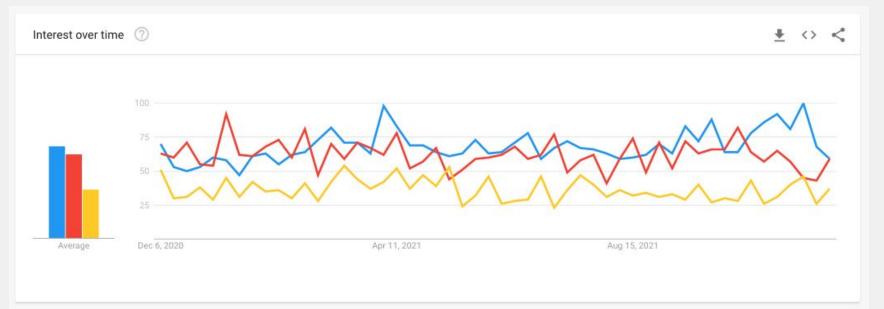
Open Source Computer Vision (OpenCV)

- Open source library for Computer Vision problems
- First released in 2000
- Latest version available is 4.5.4
- Over 2500 algorithms (classic + state-of-the-art)
- Enabled with CUDA Support



PyTorch

- Powered by Facebook
- First released in September 2016
- Most popular Deep learning library
- Easy to use as compared to TensorFlow
- Allows to customize the low-level functions



- PyTorch
- Tensorflow
- Keras



TorchVision

- Part of PyTorch designed for the Computer Vision tasks
- Comes with GPU support.
- Contains many popular image Datasets
 - MNIST, CIFAR, COCO, ImageNet etc.
- Contains several pre-trained models
 - ResNet, Inception, GoogleNet etc.



Move to Jetson