About:

This document describes steps to install imagineVision which is a vision application of Imagine platform. It provides functionalities like – counting people in image, detecting pose, gesture emotion.

Dependencies:

Opencv-3.4.0

Cuda Toolkit – 9.0

CuDNN – 7.0

OpenPose-1.0.2

Caffe (included in openPose)

1. Installing opencv-3.4.0

A) download source from <https://github.com/opencv/opencv/releases>

B) for building you can use following tutorial.

<https://www.learnopencv.com/install-opencv3-on-ubuntu/>

It has wide community support, so in case of errors you can take help from internet

1. Cuda Toolkit 9.0  
   Refer to page <https://docs.nvidia.com/cuda/cuda-installation-guide-linux/index.html>
2. CuDNN 7.0  
   Refer to page https://docs.nvidia.com/deeplearning/sdk/cudnn-install/index.html#installdriver  
   We will also need to install Nvidia graphics driver which is mentioned in the same page.
3. OpenPose 1.0.2  
   We need to version – 1.0.2 which can be downloaded from <https://github.com/CMU-Perceptual-Computing-Lab/openpose/releases>Take help from readme.md and doc/installation.md
4. Caffe- installation instructions are mentioned in openPose-rootDir/doc/installation.md