**INSTALLING OF OPEN CV ON RASPBERRY PI**

#Check whether the python version above 3.8 exists or not, if not present, download python version by going to official website.

**These are the commands which are used for installing OpenCV and get started with it,**

* sudo nano/etc/dphys-swapfile
* Comment or use # in the place of

CONF\_SWAPSIZE=100

CONF\_SWAPSIZE=2048

* 1. sudo apt-get install build-essential cmake pkg-config

2. sudo apt-get install libjpeg-dev libtiff5-dev libjasper-dev libpng12-dev

3. sudo apt-get install libavcodec-dev libavformat-dev libswscale-dev libv4l-dev

4. sudo apt-get install libxvidcore-dev libx264-dev

5. sudo apt-get install libgtk2.0-dev libgtk-3-dev

6. sudo apt-get install libatlas-base-dev gfortran

* 1. sudo apt-get install python3-dev

2. sudo apt-get install python3-pip

* 1. wget -O opencv.zip https://github.com/opencv/opencv/archive/4.1.0.zip

2. wget -O opencv\_contrib.zip <https://github.com/opencv/opencv_contrib/archive/4.1.0.zip>

3. unzip opencv.zip

4. unzip opencv\_contrib.zip

* sudo pip3 install numpy
* 1. cd ~/opencv-4.1.0

2. mkdir build

3. cd build

4. cmake -D CMAKE\_BUILD\_TYPE=RELEASE \

-D CMAKE\_INSTALL\_PREFIX=/usr/local \

-D INSTALL\_PYTHON\_EXAMPLES=ON \

-D OPENCV\_EXTRA\_MODULES\_PATH=~/opencv\_contrib-4.1.0/modules \

-D BUILD\_EXAMPLES=ON ..

* make -j4(This step will take time…)
* sudo make install && sudo ldconfig
* sudo reboot

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