

# README !!!

## Library To Install

### 1. OpenCV:-

- <https://youtu.be/QRe0QzS079s?si=YWvUTqrfQ48OACs7>
- [https://docs.opencv.org/4.x/d2/de6/tutorial\\_py\\_setup\\_in\\_ubuntu.html](https://docs.opencv.org/4.x/d2/de6/tutorial_py_setup_in_ubuntu.html)

### 2. Dlib:-

- [https://youtu.be/uF4aDdxBm\\_M?si=iCCw4UM3ZvNQoVK-](https://youtu.be/uF4aDdxBm_M?si=iCCw4UM3ZvNQoVK-)
- `sudo nano /etc/dphys-swapfile`
- `sudo /etc/init.d/dphys-swapfile stop`
- `sudo /etc/init.d/dphys-swapfile start`
- `free -m`
- `sudo raspi-config`
- `sudo apt-get update`
- `sudo apt-get install build-essential cmake`
- `sudo apt-get install libgtk-3-dev`
- `sudo apt-get install libboost-all-dev`
- `wget https://bootstrap.pypa.io/get-pip.py`
- `sudo python3 get-pip.py`
- `pip3 install numpy`
- `pip3 install dlib`

3. Python3
4. Imutils
5. Pygame
6. face\_utils
7. scipy
8. Rpi.GPIO:- sudo apt install rpi-gpio-common
9. time
10. os
11. pip3
12. numpy

## **Resolution**

1.256x144

## **How to Turn On PICAMERA() – sudo libcamera-hello/libcamera-hello**

1. sudo raspi-config
2. On Legacy Camera
3. On Full KMS
4. ON Glamor
5. Then Reboot
6. Sudo su
7. Sudo nano /boot/config.txt
8. #start\_x=1
9. #camera\_auto\_detect=1
10. Set Gpu\_mem= 256

## **How To Set Audio As A Default From Config ?**

1. `sudo nano /etc/asound.conf`
2. Set Value As Per Port – alsamixer
  - defaults.pcm.card 1
  - defaults.pcm.card 1