**Project 01: Face Detection**

1. Clone the github repository into local system

**git clone https://github.com/ameer-aiml/face-detect-ov-rpi**

This repository contains both xml and bin file of Face Detection model.

1. Go to Face Detection folder

**cd face-detect-ov-rpi /Face Detection**

**Note: Add a single before and after Face Detection wording if not recognized**

1. Run the python file (it should be python3)

**python3 face\_detection.py**

**Method 2: If git clone isn’t working**

1. Create a folder named face

**mkdir face && cd face**

1. **Download xml and bin file using wget for Face Detection Retail from web browser and move it to face folder**

Link : <https://download.01.org/opencv/2019/open_model_zoo/R1/models_bin/face-detection-retail-0004/FP16/>

NOTE: Take only FP16 because VPU works only on FP16 .

1. Copy and paste the face\_detection.py file in face folder of Raspberry Pi
2. Run python file using python3 command

**python3 face\_detection.py**

**Errors which might be faced:**

1. **cv2.error: OpenCV(4.4.0-openvino) ../opencv/modules/dnn/src/ie\_ngraph.cpp:638: error: (-2:Unspecified error) Failed to initialize Inference Engine backend (device = MYRIAD): Can not init Myriad device: NC\_ERROR in function 'initPlugin'**

**Either VPU isn’t working or you are using VPU in USB 3.0 ( Connect it to USB 2.0)**