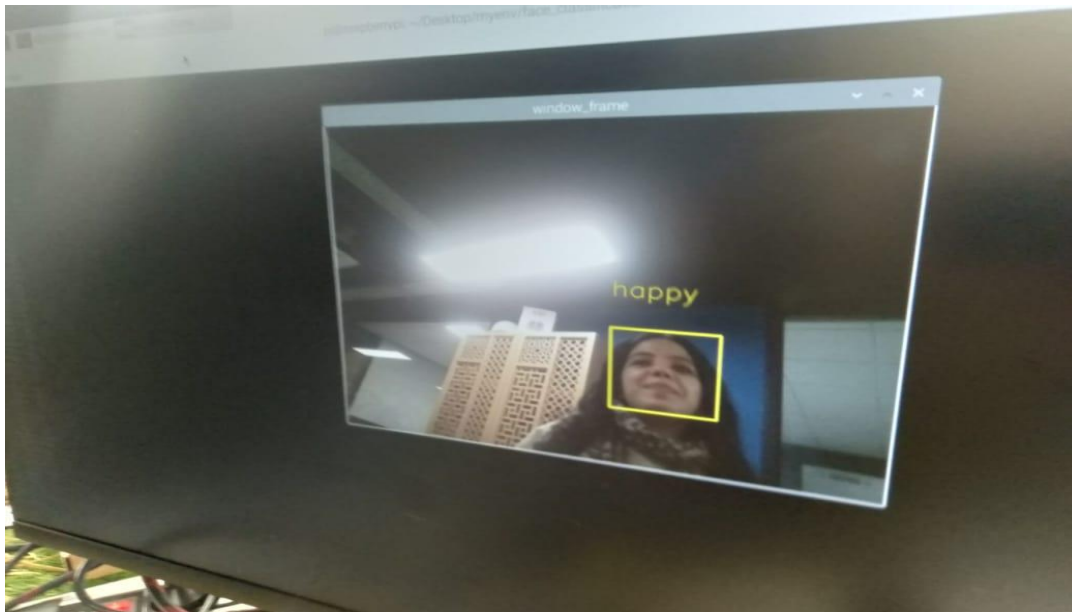


## Step 5: feeding the model to predict the expression



we are going to implement an Emotion Recognition System or a Facial Expression Recognition System on a Raspberry Pi. We are going to apply a pre-trained model to recognize the facial expression of a person from a real-time video stream. The "FER2013" dataset is used to train the model with the help of a VGG-like Convolutional Neural Network (CNN).

We are using Two Classes here that are 'Happy', 'Sad'. So, the predicted images will be among these classes.

```
emotion_prediction = emotion_classifier.predict(gray_face)

emotion_probability = np.max(emotion_prediction)

emotion_label_arg = np.argmax(emotion_prediction)

emotion_text = emotion_labels[emotion_label_arg]

emotion_window.append(emotion_text)

if len(emotion_window) > frame_window:

    emotion_window.pop(0)

try:

    emotion_mode = mode(emotion_window)

except:
```

```
continue

if emotion_text == 'sad':

    color = emotion_probability * np.asarray((0, 0, 255))

elif emotion_text == 'happy':

    color = emotion_probability * np.asarray((255, 255, 0))

else:

    color = emotion_probability * np.asarray((0, 255, 0))
```