jupyter train Last Checkpoint: 06/01/2022 (autosaved)

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Run Code

In [1]:

```
from tkinter import*
from tkinter import ttk
from PIL import Image,ImageTk
from tkinter import messagebox
import mysql.connector
import cv2
import os
import numpy as np



class Train:
    def __init__(self,root):
        self.root=root
        self.root.geometry("1530x790+0+0")
        self.root.title("face recognition system")

        title_lbl=Label(self.root,text="TRAIN DATA SET ", font=("times new roman",30,"bold"),bg="white",fg="red")
        title_lbl.place(x=0,y=0,width=1350,height=45)

        img_t = Image.open(r"C:\Users\HP\OneDrive\Desktop\Adrija\industrial internship\internship\costacloud\face recog\colle
        img_t=img_t.resize((1330,265),Image.ANTIALIAS)
        self.photoimg_t=ImageTk.PhotoImage(img_t)

        f_lbl=Label(self.root,image=self.photoimg_t)
        f_lbl.place(x=0,y=43,width=1300,height=265)

        b1_1=Button(self.root,text="Train Data ",command=self.train_classifier,cursor="hand2",font=("times new roman",20,"bol
        b1_1.place(x=0,y=310,width=1300,height=40)

        img_b = Image.open(r"C:\Users\HP\OneDrive\Desktop\Adrija\industrial internship\internship\costacloud\face recog\colle
        img_b=img_b.resize((1300,350),Image.ANTIALIAS)
        self.photoimg_b=ImageTk.PhotoImage(img_b)

        f_lbl=Label(self.root,image=self.photoimg_b)
        f_lbl.place(x=0,y=350,width=1300,height=350)

    def train_classifier(self):
        data_dir=("data")
        path=[os.path.join(data_dir,file) for file in os.listdir(data_dir)]


        faces=[]
        ids=[]
        for image in path:
            img=Image.open(image).convert('L') # gray scale image
            imageNp=np.array(img,'uint8')
            id=int(os.path.split(image)[1].split('.')[1])

            faces.append(imageNp)
            ids.append(id)
            cv2.imshow("Training",imageNp)
            cv2.waitKey(1)==13
        ids=np.array(ids)


        ### train the classifier

        clf=cv2.face.LBPHFaceRecognizer_create()
        clf.train(faces,ids)
        clf.write("classifier.xml")
        cv2.destroyAllWindows()
        messagebox.showinfo("Result","Training datasets completed!!")



if __name__=="__main__":
    root= Tk()
    obj=Train(root)
    root.mainloop()
```

```
Exception in Tkinter callback
Traceback (most recent call last):
  File "C:\Users\HP\anaconda3\lib\tkinter\__init__.py", line 1892, in __call__
    return self.func(*args)
  File "C:\Users\HP\AppData\Local\Temp/ipykernel_7732/4087792295.py", line 60, in train_classifier
    clf.train(faces,ids)
cv2.error: OpenCV(4.5.5) D:\a\opencv-python\opencv-python\opencv_contrib\modules\face\src\lbph_faces.cpp:362: error: (-21
0:Unsupported format or combination of formats) Empty training data was given. You'll need more than one sample to learn
a model. in function 'cv::face::LBPH::train'

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