Aadhaar card scanner code:-

import cv2

import pyzbar

from pyzbar import pyzbar

import pandas as pd

import cv2

import glob

images = []

for img in glob.glob("Images/\*.jpeg"):

n= cv2.imread(img)

images.append(n)

print (img)

#decode imagebarcodes = pyzbar.decode(image)

barcodes = pyzbar.decode(n)

for barcode in barcodes:

x,y,w,h = barcode.rect

#draw rectange over the code

cv2.rectangle(n, (x,y), (x+w, y+h), (255,0,0), 4)

#convert into string

bdata = barcode.data.decode("utf-8")

btype = barcode.type

text = f"{bdata}, {btype}"

print("----")

print(text)

print("----")

#write text on the image

cv2.putText(n, text,(x,y-10), cv2.FONT\_HERSHEY\_SIMPLEX, 0.5, (0,0,255),0)

dataframe=pd.DataFrame(barcodes,columns=list('ABCD'))

dataframe.to\_csv('file.csv')

print(dataframe)

cv2.imshow("images", n)

cv2.waitKey(0)

Face recognization code:-

import cv2

import os

cascPath=os.path.dirname(cv2.\_\_file\_\_)+"/data/haarcascade\_frontalface\_default.xml"

faceCascade = cv2.CascadeClassifier(cascPath)

import cv2

cam = cv2.VideoCapture(0)

cam.set(3, 640) # set video width

cam.set(4, 480) # set video height

face\_detector = cv2.CascadeClassifier(cv2.data.haarcascades+'haarcascade\_frontalface\_default.xml')

# For each person, enter one numeric face id

face\_id = input('1')

print("\n [INFO] Initializing face capture. Look the camera and wait ...")

# Initialize individual sampling face count

count = 0

while(True):

ret, img = cam.read()

img = cv2.flip(img, 1) # flip video image vertically

gray = cv2.cvtColor(img, cv2.COLOR\_BGR2GRAY)

faces = face\_detector.detectMultiScale(gray, 1.3, 5)

for (x,y,w,h) in faces:

cv2.rectangle(img, (x,y), (x+w,y+h), (255,0,0), 2)

count += 1

# Save the captured image into the datasets folder

cv2.imwrite(r"C:\Users\shruti arya\.jupyter\dataset og images\Users." + str(face\_id) + '.' +

str(count) + ".jpg", gray[y:y+h,x:x+w])

cv2.imshow('image', img)

k = cv2.waitKey(100) & 0xff # Press 'ESC' for exiting video

if k == 27:

break

elif count >= 30: # Take 1 face sample and stop video

break

# Do a bit of cleanup

print("\n [INFO] Exiting Program and cleanup stuff")

cam.release()

cv2.destroyAllWindows()