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# face-mask-detection-alert-system
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import cv2
from keras.models import load_model
import numpy as np
# Load pre-trained face detector and mask detector model
face_cascade = cv2.CascadeClassifier('haarcascade_frontalface_default.xml')
model = load_model('model/mask_detector_model.h5')
# Define labels
labels_dict = {0: 'No Mask', 1: 'Mask'}
color_dict = {0: (0, 0, 255), 1: (0, 255, 0)}
# Open webcam
webcam = cv2.VideoCapture(0)
while True:
  success, img = webcam.read()
  if not success:
    break
  gray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)
  faces = face_cascade.detectMultiScale(gray, 1.3, 5)
  for (x, y, w, h) in faces:
    face_img = img[y:y+h, x:x+w]
    resized = cv2.resize(face_img, (150, 150))
    normalized = resized / 255.0
    reshaped = np.reshape(normalized, (1, 150, 150, 3))
    result = model.predict(reshaped)
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