CODE LINK

import cv2  
import numpy as np  
  
# Function to detect a specific color in an image  
def detect\_color(frame, lower\_color, upper\_color):  
 # Convert BGR to HSV  
 hsv = cv2.cvtColor(frame, cv2.COLOR\_BGR2HSV)  
 # Threshold the HSV image to get only specified color  
 mask = cv2.inRange(hsv, lower\_color, upper\_color)  
 # Bitwise-AND mask and original image  
 res = cv2.bitwise\_and(frame, frame, mask=mask)  
 return res  
  
# Open camera for real-time detection  
cap = cv2.VideoCapture(0) # Use camera index 0 (default camera)  
  
if not cap.isOpened():  
 print("Cannot open your camera")  
 exit()  
  
# Define the color range for detection (here, detecting blue color as an example)  
lower\_blue = np.array([110, 50, 50])  
upper\_blue = np.array([130, 255, 255])  
  
while True:  
 # Capture frame-by-frame  
 ret, frame = cap.read()  
  
 if not ret:  
 print("Can't receive frame (stream end?). Exiting ...")  
 break  
  
 # Detect the specified color in the frame  
 color\_detected = detect\_color(frame, lower\_blue, upper\_blue)  
  
 # Display the resulting frame  
 cv2.imshow("Color Detection", color\_detected)  
  
 # Terminate run when "Q" pressed  
 if cv2.waitKey(1) == ord("q"):  
 break  
  
# When everything is done, release the capture  
cap.release()  
cv2.destroyAllWindows()

from ultralytics import YOLO  
import numpy  
import flask as fl  
  
  
# load a pretrained YOLOv8n model  
model = YOLO("yolov8n.pt", "v8")   
  
# predict on an image  
detection\_output = model.predict(source="inference/images/bird.jpeg", conf=0.25, save=True)  
  
# Display tensor array  
  
print(detection\_output)  
# Display numpy array  
print(detection\_output[0].numpy())

# This is a sample Python script.  
  
# Press Shift+F10 to execute it or replace it with your code.  
# Press Double Shift to search everywhere for classes, files, tool windows, actions, and settings.  
  
  
def print\_hi(name):  
 # Use a breakpoint in the code line below to debug your script.  
 print(f'Hi, {name}') # Press Ctrl+F8 to toggle the breakpoint.  
  
  
# Press the green button in the gutter to run the script.  
if \_\_name\_\_ == '\_\_main\_\_':  
 print\_hi('PyCharm')  
  
# See PyCharm help at https://www.jetbrains.com/help/pycharm/

import numpy  
from ultralytics import YOLO  
import cv2  
  
my\_file = open("sri.txt","r")  
data = my\_file.read()  
print(data)  
class\_list = data.split("\n")  
my\_file.close()