Object-detection-by-using-mobile app-IP web camera

Aim: In this project, I will take you through the task of object-detection-by-mobile app-IP web camera with Computer Vision Opencv2 using data with weights and configuration along with coco names to detect objects with YOLO algorithm.

Lets Start Project:

# packages we need

# List of objects that can be detected using this model

# Creating dnn Detection Model

# locating the trained model class path

# Lets' test on an image

# importing image from assets directory

# This image kinda big, let's Resize it

# resize a bit

# Lets' declear some variables

# Threshold to detect object

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# 0-1 higer value means lower suppress

# Formating for non-maxima suppression

# it removes overlap bounding boxes & keep the most confident ones.

- make sure bounding boxex and confident are List of floats, it shouldn't associate with numpy

# Take a look on actual image

# ind returns list we need index only

# set the rectangle around object

# Lets show the result

# Let's test it on webcam

# we can also make a funtion just for image processing

# Formating data

# ind returns list we need index only

# set the rectangle around object

# show accuracy level

# putting name of object

# esc to quit