tracking and Object detection, Courting System Required Took =-- Yolo v8 1) Object detection By te trade Tracking Luperission. 3) Counting Counting Cars Use Case? Use input urdeo [CHANGE

1

USe Stable version of You v8 9) Get Byte track 5) Autall Roboflow's Supervision Load pretrained YoLOV8x.pt Be specific > Train YoLOV8 from skratch on "Costom dataset. Tricky Part : DULE Supermision to georgeate the How do I own the model on every frame of the wideo!" use Yolout model 1. er imported from python SOK to own inference inside that loop.

2

) bet a frame generator Generate frames from input video, Optional: Show a strigk frame Both the finctions are anablable in Sperusion library. Output of this will give numpy crossy of detors a mana frame. If you want to check Optional: Whether Yolous detects 3 (with bounding boxes Check the confidence of there

Will the wellice 2 & Idea: optional to cheek which bounding box maps to which does Jolov8, Use. Superitision is a general So, Convert what you will get from Yolo v8 to an (object is understandable to Super vision. momment detections Box Annotator
Lupervision used to digitaly bounding somes on the frames () Anotate frame with thendetections. IP Frame Tuelides around whiches Confidence swa

Date: / Optional: If we want to pas class Id label 1-c1- car, took etc. in place of confidence score that blogs, Then tatee both clan 20 or class name, (classiames did:) optill here it is for a single How, apply this method for the whole wides. loop through all frames Coming from input video. Vane all those processed frames re from of the d happens with a

VideoSink needs 1. instance of video 2. Path to output Get this video information · vie video info from Use t 90m, 1-c OBJECT DEFECTION IN VIOEO DONE MERE. 2

GOING FOR TRACKING THE VEHICLES! By to tracker 1 SIDE NOTES Cook block inserted to so he the calibration Create any Instance issue sho Yolov 5 and Byto toaker Use that instance inside the for loop to get the tracker id's. update labels alongwith trackerid 26) booaso the vieles * * TRACKING DONE HERE GOING FOR GOUNTING MAKE A LINE COUNT the objects that line.

Date: / / 26.1 THINK MOUT THE LOCATION OF THE LINE. Line-Start Une- End Use a class called as POINT ? from Superission library These two points used in a counter. 263 display that line --s another 26 4 annotates lde need to let the line know where are the detections so that it can determine Whether or not it god Crossed by them and Annotate the line wonter at the inside end of for bop. So it can be aware about consent conten