**Distance detection using COCO dataset**

**To run this code :-**

* **Open windows powershell.**
* **Change the directory to the downloaded project folder**
* **Run “python –m venv venv” to create a virtual environment named as venv.**
* **Now, a folder is created in your project directory named venv, open it, got scripts folder, find Activate.ps1 and copy it’s full path in the powershell and run, this will activate your virtual environment.**
* **Run the following commands :-**
  + **pip install numpy**
  + **pip install imutils**
  + **pip install opencv-python**
  + **pip install scipy**
* **Run the command “python distdet.py --input test.mp4 --output output.avi --display 1” to run the distance detection project.**
* **In this line of command you can see the --input and --output argument and their respective video files and one more argument is –display, it’s value can be 0 or 1, by default it is 1, it is defined to know whether the user wants to display every frame as output during the process or not.**
* **After the code is executed successfully the output video will be saved in output.avi in the project directory.**

**Note: yolov3.weights is 236.52 MB and output.avi is 164.53 MB, this exceeds GitHub's file size limit of 100.00 MB. So, I have uploaded these two files in google drive.**

**Link to google drive:-**

[**https://drive.google.com/drive/folders/1efA159ZiwtZ125TNK0khhSxds1EqbXZz?usp=sharing**](https://drive.google.com/drive/folders/1efA159ZiwtZ125TNK0khhSxds1EqbXZz?usp=sharing)

**After downloading these files transfer yolov3.weights in yolo-coco folder.**