1.From the the zip file extract **‘train\_data.zip’,’coco\_custom.yaml’,’yolov7-custom.yaml’**and **‘plug detection ipynb file’.**

2. Upload the ipynb file to google colab or anyother gpu-runtime connected notebook.

3.Execute first 4-cells, a git clone and a **yolov7 file** will be created in the files section.

4.Now upload the **train\_data.zip** file which was downloaded before .

5. Execute the **5th cell** this will extract the train\_data.zip file in the files section.

6.Now, in yolov7→data→upload **’coco\_custom.yaml’** file

Similarly in yolov7→cfg→training→ upload **’yolov7-custom.yaml’** file.

7. Execute the next cell which trains the model on provided data-set.

8. After training the **best weights file** was created and its **path** will be given as a output.

9.Now, in 8th or detection cell paste the best weights file path in weights section and provide a source path (which is the **image or video path** that you are going to test(this video or image should be **uploaded in files section prior to detection**.)) .

10. After detection the **result was created and path is provided as output.**

11. You can view the image by going to the path or just paste the path in below cell.(imshow).

12.If you are working with a local-runtime environment make sure that Pytorch version: 1.13.1+cu116 was installed in your environment you can do so by the command ‘pip install torch==1.13.1+cu116 torchvision==0.13.1+cu116 torchaudio==0.12.1 --extra-index-url https://download.pytorch.org/whl/cu116

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13. Also ensure that the paths of files provided in cells are the original local paths of files wherever they were downloaded.