Knowledge Transfer Notes (01/12/2020)

2 ipynb files – training
– inference.

Training Notebook.

- Using Detectron (uses pytorch)
- 12 hrs of colab training.
  - loss was peaking and dropping
  - drive linking to stop time wast. on uploading files to colab.
  - colab.patches → to display images in colab.
  - json – contains annotations

- coco dataset format is used.

- 2 dataset files — 800 + 400 = 1200 images in total.

- dataset_catalog ⟹ Image info in each category and other info.

- base_model = R_50_FPN_3x

- Once training is done, the "outputs" folder will contain the frozen trained model (created in some checkpoint / when ~~no~~ epoches were complete) in ".pth" format

- config file can be saved in a ".pkl" file. So every time we don't

need to re-write the config again.

- Once training is done we then go to the inference notebook.

- In inference notebook we load the model and the config '.pkl' file.

- the inference notebook works with the video for inferencing - so most of video handling is present here.

Some Issues.

① More than 60,000 epochs resulted in increased false-positive

② Annotation format might not work

out of the box with other models.

① Training - GPU
Inference - CPU only (no GPU)

End Product !!

↳ 1) Classificat^n
2) Mask (Imp!!)