

INSTRUCTIONS TO RUN THE CODE

NAME: JanukaFernando-AgeingSign-Batch15

Steps to run the notebook:

1. Open the **JanukaFernando-AgeingSign-Batch15.ipynb** file or the link given in the folder via **Google-Collaboratory**.
2. Create a copy on your drive.
3. Open the copy via a new tab and run all the cells in order to get the result. (Go to runtime and click **Run All**)

Note:

- The notebook needs to be run with Google-Collaboratory with GPU or TPU to satisfy the requirements.
- The folder **Age_sd_m** will be generated after the code is run successfully.
- The dependencies and packages will be installed automatically once the code is run.

Dependencies Used:

- **torch**
- **image** and **clear_output** from **IPython.display**
- **gdrive_download** from **utils.google_util**

Note:

- If required **lowercase y** ([y]es) need to be given in between the runtime. Need to be given **twice**; First y is used to replace README.roboflow.txt and second y is used to replace data.yaml)
- The below shown code can be done with more epochs (2000) to have more accuracy. (The accuracy will be about 75%). Viewer can edit the epechs before running the cell.

▼ Give 2000 epochs for better results

```
[ ] # train yolov5s on custom data for 20 epochs
# time its performance
%%time
%cd ../yolov5/
!python train.py --img 416 --batch 16 --epochs 20 --data '../data.yaml' --cfg ./models/custom_yolov5s.yaml --weights '' --name yolov5s_results --cacl

[Errno 2] No such file or directory: '../yolov5/'
/content/Age_sd_m/yolov5
github: ⚠ WARNING: code is out of date by 301 commits. Use 'git pull' to update or 'git clone https://github.com/ultralytics/yolov5' to download latest
YOLOv5 v4.0-126-g886f1c0 torch 1.9.0+cu102 CUDA:0 (Tesla T4, 15109.75MB)

Namespace(adam=False, batch_size=16, bucket='', cache_images=True, cfg='./models/custom_yolov5s.yaml', data='../data.yaml', device='', entity=None,
wandb: Install Weights & Biases for YOLOv5 logging with 'pip install wandb' (recommended)
Start Tensorboard with "tensorboard --logdir runs/train", view at http://localhost:6006/
2021-06-25 07:29:53.591057: I tensorflow/stream_executor/platform/default/dso_loader.cc:53] Successfully opened dynamic library libcudart.so.11.0
hyperparameters: lr0=0.01, lrf=0.2, momentum=0.937, weight_decay=0.0005, warmup_epochs=3.0, warmup_momentum=0.8, warmup_bias_lr=0.1, box=0.05, cls=0
```