YOLOv5m + CelebA

Below codes are written by me, however,

Source code for YOLOv5 can be found at https://github.com/ultralytics/yolov5 (https://github.com/ultralytics/yolov5)

CelebA: https://mmlab.ie.cuhk.edu.hk/projects/CelebA.html (https://mmlab.ie.cuhk.edu.hk/projects/CelebA.html)

Some auxillary codes.

```
In [ ]:
```

```
def normalize(size, x1,y1,w,h):
    x = x1 + w/2
    y = y1 + h/2
    x = x/size[0]
    w = w/size[0]
    y = y/size[1]
    h = h/size[1]
    return (x,y,w,h)
```

In []:

Method = LZMA:24

```
import os
if not os.path.exists('data'):
    os.mkdir('data')
    os.mkdir('data' + "/labels")
    os.mkdir('data' + "/images")
if not os.path.exists('valid'):
    os.mkdir('valid')
    os.mkdir('valid' + "/labels")
    os.mkdir('valid' + "/images")
```

Below cell copy celeba.7z from my google drive to colab.

However, if you do not have celebA dataset, please download it here:

img_celeba.7z : https://drive.google.com/drive/folders/0B7EVK8r0v71pTUZsaXdaSnZBZzg?resourcekey=0-rJlzl934LzC-Xp28GelBzQ (https://drive.google.com/drive/folders/0B7EVK8r0v71pTUZsaXdaSnZBZzg?resourcekey=0-rJlzl934LzC-Xp28GelBzQ)

 $\label{list_bbox_celeba.txt:} $$\lim_b x_celeba.txt: $\frac{https://drive.google.com/drive/folders/0B7EVK8r0v71pOC0wOVZIQnFfaGs?resourcekey=0-pEjrQoTrlbjZJO2UL8K_WQ}{\frac{https://drive.google.com/drive/folders/0B7EVK8r0v71pOC0wOVZIQnFfaGs?resourcekey=0-pEjrQoTrlbjZJO2UL8K_WQ}$$

Instead of downloading it, you can use cp command to move to your mounted google drive /content/drive/MyDrive and unzip the .7z file using command below, the files will be extracted at your current directory (which is /content)

Note that you don't need all 200k data, For my training I used 50k and 70k data, so you can manually stop the extraction when the extracted files below is greater than 70k (or 71k if you are using 1k images for validation).

```
In [ ]:
! 7z x /content/drive/MyDrive/csc420/img celeba.7z
                                                                                                                  -
7-Zip [64] 16.02 : Copyright (c) 1999-2016 Igor Pavlov : 2016-05-21
p7zip Version 16.02 (locale=en US.UTF-8,Utf16=on,HugeFiles=on,64 bits,8 CPUs Intel(R) Xeon(R) CPU @
2.00GHz (50653), ASM, AES-NI)
Scanning the drive for archives:
                                                                                 1 folder, 14 files,
  OM Scan /content/drive/MyDrive/csc420/
10191072466 bytes (9719 MiB)
Extracting archive: /content/drive/MyDrive/csc420/img celeba.7z/img celeba.7z.001
Path = /content/drive/MyDrive/csc420/img celeba.7z/img celeba.7z.001
Type = Split
Physical Size = 734003200
Volumes = 14
Total Physical Size = 10191072466
Path = img celeba.7z
Size = 10191072466
Path = img_celeba.7z
Type = 7z
Physical Size = 10191072466
Headers Size = 1963891
```

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21% 42028 - img celeba/042029.jpg
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                                     36% 72701 - img_celeba/072702.jpg
 36% 72712 - img celeba/072713.jpg
                                                                      36% 72723 - img_celeba/072724.j
                                     36% 72733 - img_celeba/072734.jpg
36% 72743 - img celeba/072744.jpg
                                                                      36% 72754 - img celeba/072755.j
                                     36% 72765 - img_celeba/072766.jpg
                                                                      36% 72781 - img_celeba/072782.j
36% 72776 - img celeba/072777.jpg
                                     36% 72787 - img_celeba/072788.jpg
36% 72798 - img_celeba/072799.jpg
                                                                      36% 72809 - img celeba/072810.j
                                     36% 72820 - img_celeba/072821.jpg
36% 72831 - img celeba/072832.jpg
                                                                      36% 72842 - img celeba/072843.j
                                     36% 72848 - img_celeba/072849.jpg
pg
```

Below 2 cells are for adding first 70k images to training set, and adding the last 1k images to validation set. According to YOLO's format.

```
In [ ]:
import argparse
import os
from os import walk, getcwd
from PIL import Image, ImageFile
from shutil import copyfile
import json
import requests
from io import BytesI0
ImageFile.LOAD TRUNCATED IMAGES = True
output_path = '/content/data'
f = open('/content/drive/MyDrive/csc420/list bbox celeba.txt','r')
lines = f.read().split('\n')[3:70006]
f.close()
for line in lines:
  # new text =
  f = filter(None, line.split(' '))
  part = list(f)
  img_name = part[0]
  id = 0
  x = float(part[1])
  y = float(part[2])
  w = float(part[3])
  h = float(part[4])
  img_path = str(os.path.join('/content/img_celeba/','{}'.format(img_name)))
  img=Image.open(img path)
  img.save(os.path.join('/content/data/images','%s.jpg'%(img_name.split('.')[0])))
  bb = normalize([int(img.size[0]),int(img.size[1])], x,y,w,h)
new_text = (str(id) + " " + " ".join([str(a) for a in bb])
                                 " ".join([str(a) for a in bb]) + '\n')
  f = open(os.path.join('/content/data/labels','%s.txt'%(img_name.split('.')[0])),'w')
  f.write(new_text)
  f.close()
```

In []:

```
output path = '/content/valid'
f = open('/content/drive/MyDrive/csc420/list bbox celeba.txt','r')
lines = f.read().split('\n')[70007:71008]
f.close()
for line in lines:
  # new text =
  f = filter(None, line.split(' '))
  part = list(f)
  img_name = part[0]
  id = 0
  x = float(part[1])
  y = float(part[2])
  w = float(part[3])
  h = float(part[4])
  img path = str(os.path.join('/content/img celeba/','{}'.format(img name)))
  img=Image.open(img path)
  img.save(os.path.join('/content/valid/images','%s.jpg'%(img_name.split('.')[0])))
  bb = normalize([int(img.size[0]),int(img.size[1])], x,y,w,h)
new_text = (str(id) + " " + " ".join([str(a) for a in bb])
                                 " ".join([str(a) for a in bb]) + '\n')
  f = open(os.path.join('/content/valid/labels','%s.txt'%(img name.split('.')[0])),'w')
  f.write(new text)
  f.close()
```

Now we clone yolov5 here and setup the model.

```
In [ ]:
git clone https://github.com/ultralytics/yolov5.git
                                                                                                                  -
Cloning into 'yolov5'...
remote: Enumerating objects: 12857, done.
remote: Total 12857 (delta 0), reused 0 (delta 0), pack-reused 12857
Receiving objects: 100% (12857/12857), 11.81 MiB | 9.73 MiB/s, done.
Resolving deltas: 100% (8927/8927), done.
In [ ]:
% cd yolov5/
/content/yolov5
```

In []:

```
! pip install -r requirements.txt
Requirement already satisfied: mathlotlih>=3 2 2 in /usr/local/lih/nython3 7/dist-nackages (from -r
```

```
requirements.txt (line 4)) (3.2.2)
Requirement already satisfied: numpy>=1.18.5 in /usr/local/lib/python3.7/dist-packages (from -r requ
irements.txt (line 5)) (1.21.5)
Requirement already satisfied: opencv-python>=4.1.2 in /usr/local/lib/python3.7/dist-packages (from
-r requirements.txt (line 6)) (4.1.2.30)
Requirement already satisfied: Pillow>=7.1.2 in /usr/local/lib/python3.7/dist-packages (from -r requ
irements.txt (line 7)) (7.1.2)
Collecting PyYAML>=5.3.1
   Downloading PyYAML-6.0-cp37-cp37m-manylinux 2 5 x86 64.manylinux1 x86 64.manylinux 2 12 x86 64.man
ylinux2010 x86 64.whl (596 kB)
                                                              | 596 kB 30.9 MB/s
Requirement already satisfied: requests>=2.23.0 in /usr/local/lib/python3.7/dist-packages (from -r r
equirements.txt (line 9)) (2.23.0)
Requirement already satisfied: scipy>=1.4.1 in /usr/local/lib/python3.7/dist-packages (from -r requi
rements.txt (line 10)) (1.4.1)
Requirement already satisfied: torch>=1.7.0 in /usr/local/lib/python3.7/dist-packages (from -r requi
rements.txt (line 11)) (1.10.0+cu111)
Requirement already satisfied: torchvision>=0.8.1 in /usr/local/lib/python3.7/dist-packages (from -r
requirements.txt (line 12)) (0.11.1+cull1)
Requirement already satisfied: tqdm>=4.41.0 in /usr/local/lib/python3.7/dist-packages (from -r requi
rements.txt (line 13)) (4.64.0)
Requirement already satisfied: tensorboard>=2.4.1 in /usr/local/lib/python3.7/dist-packages (from -r
requirements.txt (line 16)) (2.8.0)
Requirement already satisfied: pandas>=1.1.4 in /usr/local/lib/python3.7/dist-packages (from -r requ
irements.txt (line 20)) (1.3.5)
Requirement already satisfied: seaborn>=0.11.0 in /usr/local/lib/python3.7/dist-packages (from -r re
quirements.txt (line 21)) (0.11.2)
Collecting thop
   Downloading thop-0.0.31.post2005241907-py3-none-any.whl (8.7 kB)
Requirement already satisfied: python-dateutil>=2.1 in /usr/local/lib/python3.7/dist-packages (from
matplotlib>=3.2.2->-r requirements.txt (line 4)) (2.8.2)
Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.7/dist-packages (from matplotl
ib>=3.2.2->-r requirements.txt (line 4)) (0.11.0)
Requirement already satisfied: pyparsing!=2.0.4,!=2.1.2,!=2.1.6,>=2.0.1 in /usr/local/lib/python3.7/
dist-packages (from matplotlib>=3.2.2->-r requirements.txt (line 4)) (3.0.8)
Requirement already satisfied: kiwisolver>=1.0.1 in /usr/local/lib/python3.7/dist-packages (from mat
plotlib>=3.2.2->-r requirements.txt (line 4)) (1.4.2)
Requirement already satisfied: chardet<4,>=3.0.2 in /usr/local/lib/python3.7/dist-packages (from req
uests>=2.23.0->-r requirements.txt (line 9)) (3.0.4)
Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1 in /usr/local/lib/python3.7/d
ist-packages (from requests>=2.23.0->-r requirements.txt (line 9)) (1.24.3)
Requirement already satisfied: idna<3,>=2.5 in /usr/local/lib/python3.7/dist-packages (from requests
>=2.23.0->-r requirements.txt (line 9)) (2.10)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.7/dist-packages (from re
quests>=2.23.0->-r requirements.txt (line 9)) (2021.10.8)
Requirement already satisfied: typing-extensions in /usr/local/lib/python3.7/dist-packages (from tor
ch>=1.7.0->-r requirements.txt (line 11)) (4.1.1)
Requirement already satisfied: tensorboard-data-server<0.7.0,>=0.6.0 in /usr/local/lib/python3.7/dis
t-packages (from tensorboard>=2.4.1->-r requirements.txt (line 16)) (0.6.1)
Requirement already satisfied: setuptools>=41.0.0 in /usr/local/lib/python3.7/dist-packages (from te
nsorboard>=2.4.1->-r requirements.txt (line 16)) (57.4.0)
Requirement already satisfied: google-auth-oauthlib < 0.5, >= 0.4.1 in /usr/local/lib/python 3.7/dist-pace of the control of
kages (from tensorboard>=2.4.1->-r requirements.txt (line 16)) (0.4.6)
Requirement already satisfied: tensorboard-plugin-wit>=1.6.0 in /usr/local/lib/python3.7/dist-packag
es (from tensorboard>=2.4.1->-r requirements.txt (line 16)) (1.8.1)
Requirement already satisfied: markdown>=2.6.8 in /usr/local/lib/python3.7/dist-packages (from tenso
rboard>=2.4.1->-r requirements.txt (line 16)) (3.3.6)
Requirement already satisfied: wheel>=0.26 in /usr/local/lib/python3.7/dist-packages (from tensorboa
rd>=2.4.1->-r requirements.txt (line 16)) (0.37.1)
Requirement already satisfied: werkzeug>=0.11.15 in /usr/local/lib/python3.7/dist-packages (from ten
sorboard>=2.4.1->-r requirements.txt (line 16)) (1.0.1)
Requirement already satisfied: absl-py>=0.4 in /usr/local/lib/python3.7/dist-packages (from tensorbo
ard>=2.4.1->-r requirements.txt (line 16)) (1.0.0)
Requirement already satisfied: protobuf>=3.6.0 in /usr/local/lib/python3.7/dist-packages (from tenso
rboard>=2.4.1->-r requirements.txt (line 16)) (3.17.3)
Requirement already satisfied: grpcio>=1.24.3 in /usr/local/lib/python3.7/dist-packages (from tensor
board>=2.4.1->-r requirements.txt (line 16)) (1.44.0)
Requirement already satisfied: google-auth < 3,>=1.6.3 in /usr/local/lib/python 3.7/dist-packages (from already satisfied) and the satisfied of the satisfied
tensorboard>=2.4.1->-r requirements.txt (line 16)) (1.35.0)
Requirement already satisfied: pytz>=2017.3 in /usr/local/lib/python3.7/dist-packages (from pandas>=
1.1.4->-r requirements.txt (line 20)) (2018.9)
Requirement already satisfied: six in /usr/local/lib/python3.7/dist-packages (from absl-py>=0.4->ten
sorboard>=2.4.1->-r requirements.txt (line 16)) (1.15.0)
Requirement already satisfied: rsa<5,>=3.1.4 in /usr/local/lib/python3.7/dist-packages (from google-
auth<3,>=1.6.3->tensorboard>=2.4.1->-r requirements.txt (line 16)) (4.8)
Requirement already satisfied: pyasn1-modules>=0.2.1 in /usr/local/lib/python3.7/dist-packages (from
google-auth<3,>=1.6.3->tensorboard>=2.4.1->-r requirements.txt (line 16)) (0.2.8)
Requirement already satisfied: cachetools<5.0,>=2.0.0 in /usr/local/lib/python3.7/dist-packages (fro
m google-auth<3,>=1.6.3->tensorboard>=2.4.1->-r requirements.txt (line 16)) (4.2.4)
Requirement already satisfied: requests-oauthlib>=0.7.0 in /usr/local/lib/python3.7/dist-packages (f
rom google-auth-oauthlib<0.5,>=0.4.1->tensorboard>=2.4.1->-r requirements.txt (line 16)) (1.3.1)
Requirement already satisfied: importlib-metadata>=4.4 in /usr/local/lib/python3.7/dist-packages (fr
om markdown>=2.6.8->tensorboard>=2.4.1->-r requirements.txt (line 16)) (4.11.3)
```

```
Requirement already satisfied: zipp>=0.5 in /usr/local/lib/python3.7/dist-packages (from importlib-m etadata>=4.4->markdown>=2.6.8->tensorboard>=2.4.1->-r requirements.txt (line 16)) (3.8.0)
Requirement already satisfied: pyasn1<0.5.0,>=0.4.6 in /usr/local/lib/python3.7/dist-packages (from pyasn1-modules>=0.2.1->google-auth<3,>=1.6.3->tensorboard>=2.4.1->-r requirements.txt (line 16)) (0.4.8)
Requirement already satisfied: oauthlib>=3.0.0 in /usr/local/lib/python3.7/dist-packages (from reque sts-oauthlib>=0.7.0->google-auth-oauthlib<0.5,>=0.4.1->tensorboard>=2.4.1->-r requirements.txt (line 16)) (3.2.0)
Installing collected packages: thop, PyYAML
Attempting uninstall: PyYAML
Found existing installation: PyYAML 3.13
Uninstalling PyYAML-3.13:
Successfully uninstalled PyYAML-3.13
```

Add below python code to a new file under yolov5/ named config.yaml

Successfully installed PyYAML-6.0 thop-0.0.31.post2005241907

DO NOT run below cell.

In []:

```
##### Don't run this cell, instead copy it to a new file and name it config.yaml
path: /content/ # dataset root dir
train: data # train images (relative to 'path') 128 images
val: valid # val images (relative to 'path') 128 images

# Classes
nc: 1 # number of classes
names: [ 'face' ] # class names
```

Now we use the config we just created above to fine-tune a yolov5 medium model for 10 epochs.

In []:

```
| python train.py --img 640 --batch 32 --epochs 10 --data config.yaml --weights yolov5m.pt
```

train: weights=yolov5m.pt, cfg=, data=config.yaml, hyp=data/hyps/hyp.scratch-low.yaml, epochs=10, ba
tch_size=32, imgsz=640, rect=False, resume=False, nosave=False, noval=False, noautoanchor=False, evo
lve=None, bucket=, cache=None, image_weights=False, device=, multi_scale=False, single_cls=False, op
timizer=SGD, sync_bn=False, workers=8, project=runs/train, name=exp, exist_ok=False, quad=False, cos
_lr=False, label_smoothing=0.0, patience=100, freeze=[0], save_period=-1, local_rank=-1, entity=None
, upload_dataset=False, bbox_interval=-1, artifact_alias=latest
github: up to date with https://github.com/ultralytics/yolov5
YOLOv5 v6.1-135-g7926afc torch 1.10.0+cu111 CUDA:0 (Tesla T4, 15110MiB)

hyperparameters: lr0=0.01, lrf=0.01, momentum=0.937, weight_decay=0.0005, warmup_epochs=3.0, warmup_momentum=0.8, warmup_bias_lr=0.1, box=0.05, cls=0.5, cls_pw=1.0, obj=1.0, obj_pw=1.0, iou_t=0.2, and hor_t=4.0, fl_gamma=0.0, hsv_h=0.015, hsv_s=0.7, hsv_v=0.4, degrees=0.0, translate=0.1, scale=0.5, s hear=0.0, perspective=0.0, flipud=0.0, fliplr=0.5, mosaic=1.0, mixup=0.0, copy_paste=0.0
Weights & Biases: run 'pip install wandb' to automatically track and visualize YOLOv5 runs (RECOMME NDED)

TensorBoard: Start with 'tensorboard $-\log r$ runs/train', view at http://localhost:6006/Overriding model.yaml nc=80 with nc=1

```
params
                   from n
                                         module
                                                                                       arguments
  0
                      -1 1
                                  5280
                                         models.common.Conv
                                                                                       [3, 48, 6, 2, 2]
                                                                                       [48, 96, 3, 2]
[96, 96, 2]
                      -1 1
  1
                                 41664
                                         models.common.Conv
  2
                      - 1
                          2
                                 65280
                                         models.common.C3
  3
                      -1 1
                                166272
                                         models.common.Conv
                                                                                       [96, 192, 3, 2]
  4
                                                                                       [192, 192, 4]
[192, 384, 3, 2]
[384, 384, 6]
                      -1 4
                                444672
                                         models.common.C3
  5
                      - 1
                          1
                                664320
                                         models.common.Conv
  6
                      - 1
                          6
                               2512896 models.common.C3
  7
                      -1 1
                               2655744 models.common.Conv
                                                                                       [384, 768, 3, 2]
  8
                      -1 2
                               4134912
                                         models.common.C3
                                                                                       [768, 768, 2]
                                                                                       [768, 768, 5]
[768, 384, 1, 1]
  9
                      - 1
                          1
                               1476864
                                         models.common.SPPF
                         1
 10
                      - 1
                                295680 models.common.Conv
                                                                                       [None, 2, 'nearest']
 11
                      -1 1
                                      0 torch.nn.modules.upsampling.Upsample
                [-1, 6] 1
 12
                                      0 models.common.Concat
                                                                                       [1]
                                                                                       [768, 384, 2, False]
[384, 192, 1, 1]
 13
                      - 1
                          2
                               1182720
                                         models.common.C3
 14
                      - 1
                          1
                                 74112 models.common.Conv
                                                                                       [None, 2, 'nearest']
 15
                      -1 1
                                      0
                                       torch.nn.modules.upsampling.Upsample
                [-1, 4]
 16
                         1
                                      0
                                         models.common.Concat
                                                                                       [1]
                                296448
 17
                      - 1
                          2
                                         models.common.C3
                                                                                       [384, 192, 2, False]
                                                                                       [192, 192, 3, 2]
 18
                      - 1
                          1
                                332160 models.common.Conv
 19
               [-1, 14]
                                      0
                                         models.common.Concat
                                                                                       [1]
                                                                                       [384, 384, 2, False]
                               1035264
                                         {\tt models.common.C3}
 20
                      -1 2
                                                                                       [384, 384, 3, 2]
 21
                      - 1
                          1
                               1327872
                                         models.common.Conv
 22
               [-1, 10]
                          1
                                     0
                                         models.common.Concat
                                                                                       [1]
 23
                               4134912 models.common.C3
                                                                                       [768, 768, 2, False]
                                 24246 models.yolo.Detect
          [17, 20, 23] 1
                                                                                       [1, [[10, 13, 16, 30, 33
 24
, 23], [30, 61, 62, 45, 59, 119], [116, 90, 156, 198, 373, 326]], [192, 384, 768]]
Model summary: 369 layers, 20871318 parameters, 20871318 gradients, 48.0 GFLOPs
```

Transferred 475/481 items from yolov5m.pt

Scaled weight decay = 0.0005

 ${\tt optimizer: SGD}$ with parameter groups 79 weight (no decay), 82 weight, 82 bias

albumentations: version 1.0.3 required by YOLOv5, but version 0.1.12 is currently installed

train: Scanning '/content/data/labels.cache' images and labels... 70003 found, 0 missing, 0 empty, 0
corrupt: 100% 70003/70003 [00:00<?, ?it/s]</pre>

val: Scanning '/content/valid/labels.cache' images and labels... 1001 found, 0 missing, 0 empty, 0 c
orrupt: 100% 1001/1001 [00:00<?, ?it/s]
Plotting labels to runs/train/exp2/labels.jpg...</pre>

AutoAnchor: 3.63 anchors/target, 1.000 Best Possible Recall (BPR). Current anchors are a good fit to dataset \mathscr{A}

Image sizes 640 train, 640 val
Using 8 dataloader workers
Logging results to runs/train/exp2
Starting training for 10 epochs...

Starting tra	Ining 101	10 epochs							
Epoch 0/9	gpu_mem 11.9G	box 0.03276	obj 0.01365	cls 0	labels 48	img_si	ze 540: 100%	2188/2188 [32:25<00:00,
1.12it/s]	Class		Labels	Р		R	mAP@.5 n	nAP@.5:.95:	100% 16/16 [
00:09<00:00,	1.0411/ all	1001	1001	0.995	0.9	994	0.995	0.816	
Epoch 1/9 1.13it/s]	gpu_mem 10.9G	box 0.02391	obj 0.009172	cls 0	labels 49			2188/2188 [32:14<00:00,
00:09<00:00,	Class 1.68it/	Images sl	Labels	Р		R	mAP@.5 n	nAP@.5:.95:	100% 16/16 [
,	all	1001	1001	0.995	0.9	993	0.995	0.854	
Epoch 2/9 1.14it/s]	gpu_mem 10.9G	box 0.02279	obj 0.008841	cls 0	labels 37			2188/2188 [32:03<00:00,
00:09<00:00,		Images	Labels	Р		R	mAP@.5 n	nAP@.5:.95:	100% 16/16 [
	all	1001	1001	0.996	0.9	993	0.995	0.857	
Epoch 3/9 1.14it/s]	gpu_mem 10.9G	box 0.02089	obj 0.008611	cls 0	labels 40			2188/2188 [31:59<00:00,
00:09<00:00,		Images sl	Labels	Р		R	mAP@.5 n	nAP@.5:.95:	100% 16/16 [
,	all	1001	1001	0.994	0.9	995	0.995	0.878	
Epoch 4/9 1.14it/s]	gpu_mem 10.9G		obj 0.008291	cls 0	labels 46			2188/2188 [32:04<00:00,
00:09<00:00,	Class 1.68it/		Labels	Р		R	mAP@.5 n	nAP@.5:.95:	100% 16/16 [
	all	1001	1001	0.996	0.9	996	0.995	0.877	
Epoch 5/9 1.14it/s]	gpu_mem 10.9G		obj 0.008055	cls 0	labels 49			2188/2188 [31:57<00:00,
00:09<00:00,	Class 1.69it/	Images sl	Labels	Р		R	mAP@.5 n	nAP@.5:.95:	100% 16/16 [
,	all	1001	1001	0.996	0.9	995	0.995	0.89	
Epoch 6/9 1.14it/s]	gpu_mem 10.9G	box 0.0179	obj 0.007826	cls 0	labels 44			2188/2188 [32:01<00:00,
00:09<00:00,	Class 1.69it/	Images	Labels	Р		R	mAP@.5 n	nAP@.5:.95:	100% 16/16 [
·	all	1001	1001	0.997	0.9	996	0.995	0.89	
Epoch 7/9 1.14it/s]	gpu_mem 10.9G	box 0.01721	obj 0.007632	cls 0	labels 46	img_si		2188/2188 [32:03<00:00,
00:09<00:00,	Class 1.69it/	Images	Labels	Р		R	mAP@.5 n	nAP@.5:.95:	100% 16/16 [
	all	1001	1001	0.995	0.9	997	0.995	0.893	
Epoch 8/9 1.14it/s]	gpu_mem 10.9G	box 0.0165	obj 0.007458	cls 0	labels 44	img_si		2188/2188 [32:03<00:00,
00:09<00:00,	Class 1.68it/	Images sl	Labels	Р		R	mAP@.5 n	nAP@.5:.95:	100% 16/16 [
,	all	1001	1001	0.997	0.9	997	0.995	0.896	
Epoch 9/9	gpu_mem 10.9G	box 0.01596	obj 0.007336	cls 0	labels 46			2188/2188 [32:05<00:00,

```
1.14it/s]
               Class
                          Images
                                     Labels
                                                                        mAP@.5 mAP@.5:.95: 100% 16/16 [
00:09<00:00,
              1.70it/s]
                 all
                            1001
                                       1001
                                                  0.995
                                                             0.996
                                                                         0.995
                                                                                    0.898
10 epochs completed in 5.379 hours.
Optimizer stripped from runs/train/exp2/weights/last.pt, 42.2MB
Optimizer stripped from runs/train/exp2/weights/best.pt, 42.2MB
Validating runs/train/exp2/weights/best.pt...
Fusing layers..
Model summary: 290 layers, 20852934 parameters, 0 gradients, 47.9 GFLOPs
               Class
                                     Labels
                                                                        mAP@.5 mAP@.5:.95: 100% 16/16 [
                          Images
00:10<00:00,
              1.46it/s
                                                             0.997
                 all
                            1001
                                       1001
                                                  0.994
                                                                         0.995
                                                                                    0.898
Results saved to runs/train/exp2
Below code save the best weight to my google drive
In [ ]:
!| cp /content/yolov5/runs/train/exp2/weights/best.pt /content/drive/MyDrive/csc420-face-crop-output
Now we use the best weight to detect faces from clip 3
In [ ]:
% cd /content
/content
In [ ]:
! wget http://www.cs.toronto.edu/~fidler/teaching/2018/CSC420 assign/project1.zip
! unzip project1.zip
In [ ]:
|| python detect.py --save-txt --weights /content/yolov5/runs/train/exp2/weights/best.pt --source /content/project
1/clip 3
detect: weights=['/content/yolov5/runs/train/exp2/weights/best.pt'], source=/content/project1/clip 3
, data=data/coco128.yaml, imgsz=[640, 640], conf thres=0.25, iou thres=0.45, max det=1000, device=,
view_img=False, save_txt=True, save_conf=False, save_crop=False, nosave=False, classes=None, agnosti
c nms=False, augment=False, visualize=False, update=False, project=runs/detect, name=exp, exist ok=F
alse, line_thickness=3, hide_labels=False, hide_conf=False, half=False, dnn=False
YOLOv5 v6.1-132-g014acde torch 1.10.0+cull1 CUDA:0 (Tesla P100-PCIE-16GB, 16281MiB)
Fusing layers...
Model summary: 290 layers, 20852934 parameters, 0 gradients, 47.9 GFLOPs
image 1/275 /content/project1/clip_3/0016.jpg: 384x640 2 faces, Done. (0.019s)
image 2/275 /content/project1/clip_3/0017.jpg: 384x640 2 faces, Done. (0.014s)
image 3/275 /content/project1/clip_3/0018.jpg: 384x640 2 faces, Done. (0.014s)
image 4/275 /content/project1/clip_3/0019.jpg: 384x640 2 faces, Done. (0.014s)
image 5/275 /content/project1/clip_3/0020.jpg: 384x640 2 faces, Done. (0.014s)
image 6/275 /content/project1/clip_3/0021.jpg: 384x640 2 faces, Done. (0.014s)
image 7/275 /content/project1/clip 3/0022.jpg: 384x640 2 faces, Done. (0.014s)
image 8/275 /content/project1/clip_3/0023.jpg: 384x640 2 faces, Done. (0.014s)
image 9/275 /content/project1/clip 3/0024.jpg: 384x640 2 faces, Done. (0.014s)
image 10/275 /content/project1/clip 3/0025.jpg: 384x640 2 faces, Done. (0.013s)
image 11/275 /content/project1/clip 3/0026.jpg: 384x640 2 faces, Done. (0.013s)
image 12/275 /content/project1/clip_3/0027.jpg: 384x640 2 faces, Done. (0.014s)
image 13/275 /content/project1/clip_3/0028.jpg: 384x640 2 faces, Done. (0.013s)
image 14/275 /content/project1/clip_3/0029.jpg: 384x640 2 faces, Done. (0.014s)
image 15/275 /content/project1/clip_3/0030.jpg: 384x640 2 faces, Done. (0.014s)
image 16/275 /content/project1/clip_3/0031.jpg: 384x640 2 faces, Done. (0.014s)
image 17/275 /content/project1/clip_3/0032.jpg: 384x640 2 faces, Done. (0.014s)
image 18/275 /content/project1/clip 3/0033.jpg: 384x640 2 faces, Done. (0.015s)
image 19/275 /content/project1/clip_3/0034.jpg: 384x640 2 faces, Done. (0.015s)
image 20/275 /content/project1/clip_3/0035.jpg: 384x640 2 faces, Done. (0.016s)
image 21/275 /content/project1/clip_3/0036.jpg: 384x640 2 faces, Done. (0.014s)
image 22/275 /content/project1/clip_3/0037.jpg: 384x640 2 faces, Done. (0.016s)
image 23/275 /content/project1/clip_3/0038.jpg: 384x640 2 faces, Done. (0.014s)
image 24/275 /content/project1/clip_3/0039.jpg: 384x640 2 faces, Done. (0.014s)
image 25/275 /content/project1/clip_3/0040.jpg: 384x640 2 faces, Done. (0.015s)
image 26/275 /content/project1/clip 3/0041.jpg: 384x640 2 faces, Done. (0.015s)
image 27/275 /content/project1/clip_3/0042.jpg: 384x640 2 faces, Done. (0.014s)
image 28/275 /content/project1/clip_3/0043.jpg: 384x640 2 faces, Done. (0.014s)
image 29/275 /content/project1/clip_3/0044.jpg: 384x640 2 faces, Done. (0.014s)
image 30/275 /content/project1/clip 3/0045.jpg: 384x640 2 faces, Done. (0.014s)
image 31/275 /content/project1/clip_3/0046.jpg: 384x640 2 faces, Done. (0.016s)
image 32/275 /content/project1/clip_3/0047.jpg: 384x640 2 faces, Done. (0.014s)
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image 33/275 /content/project1/clip 3/0048.jpg: 384x640 1 face, Done. (0.013s)
image 34/275 /content/project1/clip_3/0049.jpg: 384x640 Done. (0.013s)
image 35/275 /content/project1/clip_3/0050.jpg: 384x640 Done. (0.014s)
image 36/275 /content/project1/clip_3/0051.jpg: 384x640 Done. (0.013s)
image 37/275 /content/project1/clip_3/0052.jpg: 384x640 Done. (0.014s)
image 38/275 /content/project1/clip_3/0053.jpg: 384x640 Done. (0.015s)
image 39/275 /content/project1/clip_3/0054.jpg: 384x640 Done. (0.013s)
image 40/275 /content/project1/clip_3/0055.jpg: 384x640 Done. (0.014s)
image 41/275 /content/project1/clip_3/0056.jpg: 384x640 Done. (0.013s)
image 42/275 /content/project1/clip_3/0057.jpg: 384x640 Done. (0.015s)
image 43/275 /content/project1/clip_3/0058.jpg: 384x640 Done. (0.014s)
image 44/275 /content/project1/clip_3/0059.jpg: 384x640 Done. (0.013s)
image 45/275 /content/project1/clip 3/0060.jpg: 384x640 Done. (0.014s)
image 46/275 /content/project1/clip_3/0061.jpg: 384x640 Done. (0.014s)
image 47/275 /content/project1/clip_3/0062.jpg: 384x640 Done. (0.014s)
image 48/275 /content/project1/clip_3/0063.jpg: 384x640 Done. (0.013s)
image 49/275 /content/project1/clip 3/0064.jpg: 384x640 Done. (0.015s)
image 50/275 /content/project1/clip_3/0065.jpg: 384x640 Done. (0.013s)
image 51/275 /content/project1/clip_3/0066.jpg: 384x640 Done. (0.013s)
image 52/275 /content/project1/clip_3/0067.jpg: 384x640 Done. (0.013s)
image 53/275 /content/project1/clip_3/0068.jpg: 384x640 Done. (0.013s)
image 54/275 /content/project1/clip_3/0069.jpg: 384x640 1 face, Done. (0.013s)
image 55/275 /content/project1/clip_3/0070.jpg: 384x640 Done. (0.013s)
image 56/275 /content/project1/clip_3/0071.jpg: 384x640 Done. (0.015s)
image 57/275 /content/project1/clip 3/0072.jpg: 384x640 Done. (0.013s)
image 58/275 /content/project1/clip_3/0073.jpg: 384x640 Done. (0.013s)
image 59/275 /content/project1/clip 3/0074.jpg: 384x640 Done. (0.013s)
image 60/275 /content/project1/clip_3/0075.jpg: 384x640 Done. (0.014s)
image 61/275 /content/project1/clip 3/0076.jpg: 384x640 Done. (0.013s)
image 62/275 /content/project1/clip_3/0077.jpg: 384x640 Done. (0.014s)
image 63/275 /content/project1/clip 3/0078.jpg: 384x640 Done. (0.014s)
image 64/275 /content/project1/clip_3/0079.jpg: 384x640 Done. (0.014s)
image 65/275 /content/project1/clip 3/0080.jpg: 384x640 Done. (0.013s)
image 66/275 /content/project1/clip_3/0081.jpg: 384x640 Done. (0.013s)
image 67/275 /content/project1/clip_3/0082.jpg: 384x640 Done. (0.014s)
image 68/275 /content/project1/clip_3/0083.jpg: 384x640 Done. (0.013s)
image 69/275 /content/project1/clip 3/0084.jpg: 384x640 Done. (0.013s)
image 70/275 /content/project1/clip_3/0085.jpg: 384x640 Done. (0.014s)
image 71/275 /content/project1/clip_3/0086.jpg: 384x640 Done. (0.013s)
image 72/275 /content/project1/clip_3/0087.jpg: 384x640 Done. (0.013s)
image 73/275 /content/project1/clip_3/0088.jpg: 384x640 Done. (0.016s)
image 74/275 /content/project1/clip_3/0089.jpg: 384x640 Done. (0.015s)
image 75/275 /content/project1/clip 3/0090.jpg: 384x640 Done. (0.013s)
image 76/275 /content/project1/clip 3/0091.jpg: 384x640 Done. (0.013s)
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image 83/275 /content/project1/clip_3/0098.jpg: 384x640 Done. (0.013s)
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image 85/275 /content/project1/clip_3/0100.jpg: 384x640 Done. (0.014s)
image 86/275 /content/project1/clip_3/0101.jpg: 384x640 Done. (0.014s)
image 87/275 /content/project1/clip_3/0102.jpg: 384x640 Done. (0.013s)
image 88/275 /content/project1/clip 3/0103.jpg: 384x640 Done. (0.013s)
image 89/275 /content/project1/clip_3/0104.jpg: 384x640 Done. (0.014s)
image 90/275 /content/project1/clip_3/0105.jpg: 384x640 1 face, Done. (0.013s)
image 91/275 /content/project1/clip_3/0106.jpg: 384x640 1 face, Done. (0.013s)
image 92/275 /content/project1/clip_3/0107.jpg: 384x640 2 faces, Done. (0.015s)
image 93/275 /content/project1/clip_3/0108.jpg: 384x640 2 faces, Done. (0.014s)
image 94/275 /content/project1/clip_3/0109.jpg: 384x640 1 face, Done. (0.013s)
image 95/275 /content/project1/clip_3/0110.jpg: 384x640 2 faces, Done. (0.013s)
image 96/275 /content/project1/clip 3/0111.jpg: 384x640 2 faces, Done. (0.013s)
image 97/275 /content/project1/clip_3/0112.jpg: 384x640 2 faces, Done. (0.014s)
image 98/275 /content/project1/clip_3/0113.jpg: 384x640 2 faces, Done. (0.014s) image 99/275 /content/project1/clip_3/0114.jpg: 384x640 3 faces, Done. (0.014s)
image 100/275 /content/project1/clip_3/0115.jpg: 384x640 3 faces, Done. (0.014s)
image 101/275 /content/project1/clip_3/0116.jpg: 384x640 3 faces, Done. (0.014s)
image 102/275 /content/project1/clip_3/0117.jpg: 384x640 2 faces, Done. (0.014s)
image 103/275 /content/project1/clip_3/0118.jpg: 384x640 3 faces, Done. (0.014s)
image 104/275 /content/project1/clip_3/0119.jpg: 384x640 2 faces, Done. (0.015s)
image 105/275 /content/project1/clip_3/0120.jpg: 384x640 2 faces, Done. (0.014s)
image 106/275 /content/project1/clip 3/0121.jpg: 384x640 2 faces, Done. (0.014s)
image 107/275 /content/project1/clip 3/0122.jpg: 384x640 2 faces, Done. (0.013s)
image 108/275 /content/project1/clip_3/0123.jpg: 384x640 2 faces, Done. (0.014s)
image 109/275 /content/project1/clip_3/0124.jpg: 384x640 2 faces, Done. (0.013s)
image 110/275 /content/project1/clip 3/0125.jpg: 384x640 2 faces, Done. (0.013s)
image 111/275 /content/project1/clip_3/0126.jpg: 384x640 2 faces, Done. (0.014s)
image 112/275 /content/project1/clip 3/0127.jpg: 384x640 3 faces, Done. (0.014s)
image 113/275 /content/project1/clip_3/0128.jpg: 384x640 2 faces, Done. (0.014s)
image 114/275 /content/project1/clip_3/0129.jpg: 384x640 3 faces, Done. (0.013s)
image 115/275 /content/project1/clip_3/0130.jpg: 384x640 3 faces, Done. (0.013s)
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image 116/275 /content/project1/clip 3/0131.jpg: 384x640 2 faces, Done. (0.014s)
image 117/275 /content/project1/clip_3/0132.jpg: 384x640 2 faces, Done. (0.013s)
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image 121/275 /content/project1/clip_3/0136.jpg: 384x640 2 faces, Done. (0.015s)
image 122/275 /content/project1/clip_3/0137.jpg: 384x640 2 faces, Done. (0.014s)
image 123/275 /content/project1/clip_3/0138.jpg: 384x640 2 faces, Done. (0.014s)
image 124/275 /content/project1/clip_3/0139.jpg: 384x640 3 faces, Done. (0.015s)
image 125/275 /content/project1/clip_3/0140.jpg: 384x640 2 faces, Done. (0.014s)
image 126/275 /content/project1/clip_3/0141.jpg: 384x640 2 faces, Done. (0.013s)
image 127/275 /content/project1/clip_3/0142.jpg: 384x640 3 faces, Done. (0.013s)
image 128/275 /content/project1/clip_3/0143.jpg: 384x640 2 faces, Done. (0.013s)
image 129/275 /content/project1/clip_3/0144.jpg: 384x640 2 faces, Done. (0.013s)
image 130/275 /content/project1/clip 3/0145.jpg: 384x640 2 faces, Done. (0.014s)
image 131/275 /content/project1/clip 3/0146.jpg: 384x640 2 faces, Done. (0.013s)
image 132/275 /content/project1/clip 3/0147.jpg: 384x640 2 faces, Done. (0.014s)
image 133/275 /content/project1/clip_3/0148.jpg: 384x640 2 faces, Done. (0.013s)
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image 186/275 /content/project1/clip_3/0201.jpg: 384x640 2 faces, Done. (0.014s)
image 187/275 /content/project1/clip_3/0202.jpg: 384x640 2 faces, Done. (0.015s)
image 188/275 /content/project1/clip_3/0203.jpg: 384x640 2 faces, Done. (0.015s)
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image 190/275 /content/project1/clip 3/0205.jpg: 384x640 2 faces, Done. (0.014s)
image 191/275 /content/project1/clip_3/0206.jpg: 384x640 2 faces, Done. (0.014s)
image 192/275 /content/project1/clip_3/0207.jpg: 384x640 2 faces, Done. (0.013s)
image 193/275 /content/project1/clip 3/0208.jpg: 384x640 2 faces, Done. (0.013s)
image 194/275 /content/project1/clip_3/0209.jpg: 384x640 2 faces, Done. (0.014s)
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image 196/275 /content/project1/clip_3/0211.jpg: 384x640 2 faces, Done. (0.014s)
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image 198/275 /content/project1/clip_3/0213.jpg: 384x640 2 faces, Done. (0.014s)
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image 204/275 /content/project1/clip_3/0219.jpg: 384x640 2 faces, Done. (0.014s)
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image 207/275 /content/project1/clip_3/0222.jpg: 384x640 2 faces, Done. (0.015s)
image 208/275 /content/project1/clip_3/0223.jpg: 384x640 2 faces, Done. (0.014s)
image 209/275 /content/project1/clip_3/0224.jpg: 384x640 2 faces, Done. (0.015s)
image 210/275 /content/project1/clip_3/0225.jpg: 384x640 2 faces, Done. (0.014s)
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image 213/275 /content/project1/clip 3/0228.jpg: 384x640 2 faces, Done. (0.013s)
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image 216/275 /content/project1/clip_3/0231.jpg: 384x640 2 faces, Done. (0.013s)
image 217/275 /content/project1/clip 3/0232.jpg: 384x640 2 faces, Done. (0.013s)
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image 225/275 /content/project1/clip 3/0240.jpg: 384x640 2 faces, Done. (0.014s)
image 226/275 /content/project1/clip_3/0241.jpg: 384x640 2 faces, Done. (0.013s)
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image 229/275 /content/project1/clip 3/0244.jpg: 384x640 2 faces, Done. (0.013s)
image 230/275 /content/project1/clip_3/0245.jpg: 384x640 2 faces, Done. (0.013s)
image 231/275 /content/project1/clip_3/0246.jpg: 384x640 2 faces, Done. (0.013s)
image 232/275 /content/project1/clip_3/0247.jpg: 384x640 2 faces, Done. (0.013s)
image 233/275 /content/project1/clip 3/0248.jpg: 384x640 2 faces, Done. (0.014s)
image 234/275 /content/project1/clip_3/0249.jpg: 384x640 2 faces, Done. (0.013s)
image 235/275 /content/project1/clip 3/0250.jpg: 384x640 2 faces, Done. (0.015s)
image 236/275 /content/project1/clip_3/0251.jpg: 384x640 2 faces, Done. (0.013s)
image 237/275 /content/project1/clip_3/0252.jpg: 384x640 2 faces, Done. (0.014s)
image 238/275 /content/project1/clip_3/0253.jpg: 384x640 2 faces, Done. (0.014s)
image 239/275 /content/project1/clip_3/0254.jpg: 384x640 2 faces, Done. (0.014s)
image 240/275 /content/project1/clip_3/0255.jpg: 384x640 2 faces, Done. (0.016s)
image 241/275 /content/project1/clip 3/0256.jpg: 384x640 2 faces, Done. (0.015s)
image 242/275 /content/project1/clip 3/0257.jpg: 384x640 2 faces, Done. (0.014s)
image 243/275 /content/project1/clip 3/0258.jpg: 384x640 2 faces, Done. (0.014s)
image 244/275 /content/project1/clip_3/0259.jpg: 384x640 2 faces, Done. (0.015s)
image 245/275 /content/project1/clip_3/0260.jpg: 384x640 1 face, Done. (0.014s)
image 246/275 /content/project1/clip_3/0261.jpg: 384x640 1 face, Done. (0.014s)
image 247/275 /content/project1/clip_3/0262.jpg: 384x640 Done. (0.014s)
image 248/275 /content/project1/clip_3/0263.jpg: 384x640 Done. (0.015s)
image 249/275 /content/project1/clip_3/0264.jpg: 384x640 Done. (0.014s)
image 250/275 /content/project1/clip_3/0265.jpg: 384x640 Done. (0.014s)
image 251/275 /content/project1/clip_3/0266.jpg: 384x640 Done. (0.016s)
image 252/275 /content/project1/clip_3/0267.jpg: 384x640 1 face, Done. (0.016s)
image 253/275 /content/project1/clip_3/0268.jpg: 384x640 1 face, Done. (0.015s)
image 254/275 /content/project1/clip 3/0269.jpg: 384x640 2 faces, Done. (0.014s)
image 255/275 /content/project1/clip_3/0270.jpg: 384x640 2 faces, Done. (0.014s)
image 256/275 /content/project1/clip_3/0271.jpg: 384x640 2 faces, Done. (0.014s) image 257/275 /content/project1/clip_3/0272.jpg: 384x640 2 faces, Done. (0.016s)
image 258/275 /content/project1/clip_3/0273.jpg: 384x640 2 faces, Done. (0.014s)
image 259/275 /content/project1/clip_3/0274.jpg: 384x640 2 faces, Done. (0.014s)
image 260/275 /content/project1/clip_3/0275.jpg: 384x640 2 faces, Done. (0.014s)
image 261/275 /content/project1/clip_3/0276.jpg: 384x640 2 faces, Done. (0.015s)
image 262/275 /content/project1/clip 3/0277.jpg: 384x640 2 faces, Done. (0.014s)
image 263/275 /content/project1/clip_3/0278.jpg: 384x640 2 faces, Done. (0.015s)
image 264/275 /content/project1/clip_3/0279.jpg: 384x640 2 faces, Done. (0.014s)
image 265/275 /content/project1/clip_3/0280.jpg: 384x640 2 faces, Done. (0.015s)
image 266/275 /content/project1/clip_3/0281.jpg: 384x640 2 faces, Done. (0.014s)
image 267/275 /content/project1/clip_3/0282.jpg: 384x640 2 faces, Done. (0.015s)
image 268/275 /content/project1/clip_3/0283.jpg: 384x640 2 faces, Done. (0.014s)
image 269/275 /content/project1/clip_3/0284.jpg: 384x640 2 faces, Done. (0.014s)
image 270/275 /content/project1/clip_3/0285.jpg: 384x640 2 faces, Done. (0.016s)
image 271/275 /content/project1/clip_3/0286.jpg: 384x640 2 faces, Done. (0.014s)
image 272/275 /content/project1/clip 3/0287.jpg: 384x640 2 faces, Done. (0.014s)
image 273/275 /content/project1/clip 3/0288.jpg: 384x640 2 faces, Done. (0.014s)
image 274/275 /content/project1/clip_3/0289.jpg: 384x640 2 faces, Done. (0.013s)
image 275/275 /content/project1/clip_3/0290.jpg: 384x640 2 faces, Done. (0.013s)
Speed: 0.3ms pre-process, 13.8ms inference, 1.0ms NMS per image at shape (1, 3, 640, 640)
Results saved to runs/detect/exp2
215 labels saved to runs/detect/exp2/labels
```

```
In [ ]:
```

h/2)*2" output clip3 new.mp4

```
ffmpeg version 3.4.8-0ubuntu0.2 Copyright (c) 2000-2020 the FFmpeg developers
  built with gcc 7 (Ubuntu 7.5.0-3ubuntu1~18.04)
  configuration: --prefix=/usr --extra-version=0ubuntu0.2 --toolchain=hardened --libdir=/usr/lib/x86
64-linux-gnu --incdir=/usr/include/x86 64-linux-gnu --enable-gpl --disable-stripping --enable-avres
ample --enable-avisynth --enable-gnutls --enable-ladspa --enable-libass --enable-libbluray --enable-
libbs2b --enable-libcaca --enable-libcdio --enable-libflite --enable-libfontconfig --enable-libfreet
ype --enable-libfribidi --enable-libgme --enable-libgsm --enable-libmp3lame --enable-libmvsofa --ena
ble-libopenjpeg --enable-libopenmpt --enable-libopus --enable-librubse --enable-librubberband --enab
le-librsvg --enable-libshine --enable-libsnappy --enable-libsoxr --enable-libspeex --enable-libssh -
-enable-libtheora --enable-libtwolame --enable-libvorbis --enable-libvpx --enable-libwavpack --enabl
e-libwebp --enable-libx265 --enable-libxml2 --enable-libxvid --enable-libzmq --enable-libzvbi --enab
le-omx --enable-openal --enable-opengl --enable-sdl2 --enable-libdc1394 --enable-libdrm --enable-lib
iec61883 --enable-chromaprint --enable-frei0r --enable-libopencv --enable-libx264 --enable-shared
  libavutil
                 55. 78.100 / 55. 78.100
                 57.107.100 / 57.107.100
57.83.100 / 57.83.100
  libavcodec
  libavformat
                 57. 10.100 / 57. 10.100
  libavdevice
  libavfilter
                  6.107.100 / 6.107.100
                 3. 7. 0 / 3. 7. 0
4. 8.100 / 4. 8.100
  libavresample
  libswscale
                 2. 9.100 / 2. 9.100
  libswresample
                54. 7.100 / 54. 7.100
  libpostproc
Input #0, image2, from '/content/yolov5/runs/detect/exp2/%04d.jpg':
  Duration: 00:00:27.50, start: 0.000000, bitrate: N/A
   Stream #0:0: Video: mjpeg, yuvj420p(pc, bt470bg/unknown/unknown), 854x480 [SAR 1:1 DAR 427:240],
10 fps, 10 tbr, 10 tbn, 10 tbc
Stream mapping:
  Stream #0:0 -> #0:0 (mjpeg (native) -> h264 (libx264))
Press [q] to stop, [?] for help
[libx264 @ 0x55826f2d3e00] using SAR=1/1
[libx264 @ 0x55826f2d3e00] using cpu capabilities: MMX2 SSE2Fast SSSE3 SSE4.2 AVX FMA3 BMI2 AVX2
[libx264 @ 0x55826f2d3e00] profile High, level 2.2
[libx264 @ 0x55826f2d3e00] 264 - core 152 r2854 e9a5903 - H.264/MPEG-4 AVC codec - Copyleft 2003-201
7 - http://www.videolan.org/x264.html - options: cabac=1 ref=3 deblock=1:0:0 analyse=0x3:0x113 me=he
x subme=7 psy=1 psy rd=1.00:0.00 mixed ref=1 me range=16 chroma me=1 trellis=1 8x8dct=1 cqm=0 deadzo
ne=21,11 fast_pskip=1 chroma_qp_offset=-2 threads=12 lookahead_threads=2 sliced_threads=0 nr=0 decim
ate=1 interlaced=0 bluray compat=0 constrained intra=0 bframes=3 b pyramid=2 b adapt=1 b bias=0 dire
ct=1 weightb=1 open gop=0 weightp=2 keyint=250 keyint min=10 scenecut=40 intra refresh=0 rc lookahea
d=40 rc=crf mbtree=1 crf=23.0 qcomp=0.60 qpmin=0 qpmax=69 qpstep=4 ip ratio=1.40 aq=1:1.00
Output #0, mp4, to 'output clip3 new.mp4':
  Metadata:
                    : Lavf57.83.100
    encoder
    Stream #0:0: Video: h264 (libx264) (avc1 / 0x31637661), yuvj420p(pc), 854x480 [SAR 1:1 DAR 427:2
40], q=-1--1, 10 fps, 10240 tbn, 10 tbc
    Metadata:
                      : Lavc57.107.100 libx264
      encoder
      cpb: bitrate max/min/avg: 0/0/0 buffer size: 0 vbv_delay: -1
frame= 275 fps=111 q=-1.0 Lsize= 2719kB time=00:00:27.20 bitrate= 818.7kbits/s speed= 11x
video:2715kB audio:0kB subtitle:0kB other streams:0kB global headers:0kB muxing overhead: 0.139070%
[libx264 @ 0x55826f2d3e00] frame I:8
                                         Avg QP:18.67
                                                      size: 29684
                                         Avg QP:20.83 size: 14077
[libx264 @ 0x55826f2d3e00] frame P:106
[libx264 @ 0x55826f2d3e00] frame B:161
                                         Avg QP:24.32 size: 6519
[libx264 @ 0x55826f2d3e00] consecutive B-frames: 18.9% 7.3% 5.5% 68.4%
[libx264 @ 0x55826f2d3e00] mb I I16..4: 31.0% 64.2% 4.8% [libx264 @ 0x55826f2d3e00] mb P I16..4: 17.1% 30.2% 2.0% P16..4: 13.3% 7.5% 6.8% 0.0% 0.0%
skip:23.0%
[libx264 @ 0x55826f2d3e00] mb B I16..4: 1.6% 5.4% 0.6% B16..8: 27.3% 8.7% 3.9% direct: 6.5%
skip:46.1% L0:48.9% L1:42.5% BI: 8.6%
[libx264 @ 0x55826f2d3e00] 8x8 transform intra:63.4% inter:86.2%
[libx264 @ 0x55826f2d3e00] coded y,uvDC,uvAC intra: 49.6% 72.0% 27.5% inter: 18.0% 20.2% 7.2%
[libx264 @ 0x55826f2d3e00] i16 v,h,dc,p: 51% 30% 15% 4%
[libx264 @ 0x55826f2d3e00] i8 v,h,dc,ddl,ddr,vr,hd,vl,hu: 27% 19% 37% 3% 2% 2%
[libx264 @ 0x55826f2d3e00] i4 v,h,dc,ddl,ddr,vr,hd,vl,hu: 42% 24% 12% 3% 4% 4% 4% 4% 3%
[libx264 @ 0x55826f2d3e00] i8c dc,h,v,p: 34% 24% 33% 8%
[libx264 @ 0x55826f2d3e00] Weighted P-Frames: Y:6.6% UV:4.7%
[libx264 @ 0x55826f2d3e00] ref P L0: 57.1% 13.7% 15.7% 13.5% 0.0%
[libx264 @ 0x55826f2d3e00] ref B L0: 75.4% 19.0% 5.6%
[libx264 @ 0x55826f2d3e00] ref B L1: 91.2% 8.8%
[libx264 @ 0x55826f2d3e00] kb/s:808.49
```

| ffmpeg -framerate 10 -start_number 16 -i /content/yolov5/runs/detect/exp2/%04d.jpg -vf "pad=ceil(iw/2)*2:ceil(i

```
In [ ]:
```

```
I rm /content/valid/images/*.jpg
I rm /content/valid/labels/*.txt
```

MTCNN

Below is a MTCNN implementation of the face detector.

code is written by me, however the source code of MTCNN can be accessed here: https://github.com/ipazc/mtcnn (https://github.com/ipazc/mtcnn)

```
In [ ]:
```

```
import imutils
import numpy as np
import cv2
from google.colab.patches import cv2_imshow
from IPython.display import display, Javascript
from google.colab.output import eval_js
from base64 import b64decode
```

```
In [ ]:
```

Below code detect faces in clip 1 stored at /content/project1/clip_1, please change this path accordingly.

In []:

```
from mtcnn import MTCNN
import os
import time
start = time.time()
path = '/content/project1/clip_1'
outpath = './clip_1_result
for fname in os.listdir(path):
    if ".jpg" in fname:
        img = cv2.cvtColor(cv2.imread(os.path.join(path, fname)), cv2.COLOR BGR2RGB)
        detector = MTCNN()
        info = detector.detect_faces(img)
        for obj in info:
            xc, yc, w, h = obj['box'][0], obj['box'][1], obj['box'][2], obj['box'][3]
            xmin = int(xc)
            ymin = int(yc)
            xmax = int(xc + w)
            ymax = int(yc + h)
            img = cv2.rectangle(img, (xmin,ymin), (xmax,ymax), (255,0,0), 2)
        img = cv2.cvtColor(img, cv2.COLOR RGB2BGR)
        cv2.imwrite(os.path.join(outpath, fname), img)
end = time.time()
print(end-start)
```

195.34867429733276

```
In [ ]:
```

```
 \begin{tabular}{ll} ffmpeg -framerate 10 -start_number 22 -i /content/clip_1_result/%03d.jpg -vf "pad=ceil(iw/2)*2:ceil(ih/2)*2" output_clip1.mp4 \end{tabular}
```

```
ffmpeg version 3.4.8-0ubuntu0.2 Copyright (c) 2000-2020 the FFmpeg developers
  built with gcc 7 (Ubuntu 7.5.0-3ubuntu1~18.04)
  configuration: --prefix=/usr --extra-version=0ubuntu0.2 --toolchain=hardened --libdir=/usr/lib/x86
 64-linux-gnu --incdir=/usr/include/x86 64-linux-gnu --enable-gpl --disable-stripping --enable-avres
ample --enable-avisynth --enable-gnutls --enable-ladspa --enable-libass --enable-libbluray --enable-
libbs2b --enable-libcaca --enable-libcdio --enable-libflite --enable-libfontconfig --enable-libfreet
ype --enable-libfribidi --enable-libgme --enable-libgsm --enable-libmp3lame --enable-libmysofa --ena
ble-libopenipeg --enable-libopenmpt --enable-libopus --enable-libpulse --enable-librubberband --enab
le-librsvg --enable-libshine --enable-libsnappy --enable-libsoxr --enable-libspeex --enable-libssh -
-enable-libtheora --enable-libtwolame --enable-libvorbis --enable-libvpx --enable-libwavpack --enabl
e-libwebp --enable-libx265 --enable-libxml2 --enable-libxvid --enable-libzmq --enable-libzvbi --enab
le-omx --enable-openal --enable-opengl --enable-sdl2 --enable-libdc1394 --enable-libdrm --enable-lib
iec61883 --enable-chromaprint --enable-frei0r --enable-libopencv --enable-libx264 --enable-shared
  libavutil
                 55. 78.100 / 55. 78.100
                 57.107.100 / 57.107.100
  libavcodec
                 57. 83.100 / 57. 83.100
  libavformat
                 57. 10.100 / 57. 10.100
  libavdevice
                  6.107.100 / 6.107.100
  libavfilter
                  3. 7. 0 / 3. 7. 0
  libavresample
                  4. 8.100 / 4. 8.100
  libswscale
                2. 9.100 / 2. 9.100
54. 7.100 / 54. 7.100
  libswresample
  libpostproc
Input #0, image2, from '/content/clip 1 result/%03d.jpg':
  Duration: 00:00:17.90, start: 0.000000, bitrate: N/A
    Stream #0:0: Video: mjpeg, yuvj420p(pc, bt470bg/unknown/unknown), 720x405 [SAR 1:1 DAR 16:9], 10
fps, 10 tbr, 10 tbn, 10 tbc
Stream mapping:
  Stream #0:0 -> #0:0 (mjpeg (native) -> h264 (libx264))
Press [q] to stop, [?] for help
[libx264 @ 0x560fc483be00] using SAR=1/1
[libx264 @ 0x560fc483be00] using cpu capabilities: MMX2 SSE2Fast SSSE3 SSE4.2 AVX FMA3 BMI2 AVX2 AVX
512
[libx264 @ 0x560fc483be00] profile High, level 2.2
[libx264 @ 0x560fc483be00] 264 - core 152 r2854 e9a5903 - H.264/MPEG-4 AVC codec - Copyleft 2003-201
7 - http://www.videolan.org/x264.html - options: cabac=1 ref=3 deblock=1:0:0 analyse=0x3:0x113 me=he
x subme=7 psy=1 psy rd=1.00:0.00 mixed ref=1 me range=16 chroma me=1 trellis=1 8x8dct=1 cqm=0 deadzo
ne=21,11 fast pskip=1 chroma qp offset=-2 threads=12 lookahead threads=2 sliced threads=0 nr=0 decim
ate=1 interlaced=0 bluray compat=0 constrained intra=0 bframes=3 b pyramid=2 b adapt=1 b bias=0 dire
ct=1 weightb=1 open gop=0 weightp=2 keyint=250 keyint min=10 scenecut=40 intra refresh=0 rc lookahea
d=40 rc=crf mbtree=1 crf=23.0 qcomp=0.60 qpmin=0 qpmax=69 qpstep=4 ip ratio=1.40 aq=1:1.00
Output #0, mp4, to 'output_clip1.mp4':
  Metadata:
    encoder
                    : Lavf57.83.100
    Stream #0:0: Video: h264 (libx264) (avc1 / 0x31637661), yuvj420p(pc), 720x406 [SAR 1:1 DAR 360:2
03], q=-1--1, 10 fps, 10240 tbn, 10 tbc
    Metadata:
                      : Lavc57.107.100 libx264
      encoder
    Side data:
      cpb: bitrate max/min/avg: 0/0/0 buffer size: 0 vbv delay: -1
frame= 179 fps=148 q=-1.0 Lsize= 1231kB time=00:00:17.60 bitrate= 573.2kbits/s speed=14.5x
video:1228kB audio:0kB subtitle:0kB other streams:0kB global headers:0kB muxing overhead: 0.239598%
                                          Avg QP:19.11 size: 26202
[libx264 @ 0x560fc483be00] frame I:2
[libx264 @ 0x560fc483be00] frame P:45
                                          Avg QP:21.04 size: 13712
[libx264 @ 0x560fc483be00] frame B:132
                                         Avg QP:25.29 size: 4453
[libx264 @ 0x560fc483be00] consecutive B-frames: 1.1% 1.1% 1.7% 96.1%
[libx264 @ 0x560fc483be00] mb I I16..4: 11.5% 78.3% 10.2%
[libx264 @ 0x560fc483be00] mb P I16..4: 3.9% 24.2% 4.0% P16..4: 26.0% 18.1% 16.9% 0.0% 0.0%
skip: 7.0%
[libx264 @ 0x560fc483be00] mb B I16..4: 0.9% 6.0% 0.5% B16..8: 30.4% 12.6% 5.8% direct: 8.8%
skip:35.2% L0:48.5% L1:41.5% BI:10.0%
[libx264 @ 0x560fc483be00] 8x8 transform intra:78.0% inter:88.6%
[libx264 @ 0x560fc483be00] coded y,uvDC,uvAC intra: 72.0% 74.0% 21.4% inter: 27.0% 31.0% 6.4%
[libx264 @ 0x560fc483be00] i16 v,h,dc,p: 45% 36% 15% 4%
[libx264 @ 0x560fc483be00] i8 v,h,dc,ddl,ddr,vr,hd,vl,hu: 25% 22% 39% 3% 1% 2% 1% 2% 5% [libx264 @ 0x560fc483be00] i4 v,h,dc,ddl,ddr,vr,hd,vl,hu: 48% 29% 9% 2% 2% 3% 2% 2% 2% 2%
[libx264 @ 0x560fc483be00] i8c dc,h,v,p: 36% 27% 33% 4%
[libx264 @ 0x560fc483be00] Weighted P-Frames: Y:0.0% UV:0.0%
[libx264 @ 0x560fc483be00] ref P LO: 51.8% 16.1% 15.9% 16.2%
[libx264 @ 0x560fc483be00] ref B L0: 76.9% 16.5% 6.6%
[libx264 @ 0x560fc483be00] ref B L1: 89.6% 10.4%
```

-

[libx264 @ 0x560fc483be00] kb/s:561.90

In []:

%%shell
jupyter nbconvert --to html /content/train_face_detection.ipynb

[NbConvertApp] Converting notebook /content/train_face_detection.ipynb to html [NbConvertApp] Writing 1187093 bytes to /content/train_face_detection.html

Out[]: