(alfonso1) c:\Kidney\_Stone-Yolov10>python TrainKidneyStone.py

C:\Users\Alfonso Blanco\.conda\envs\alfonso1\lib\site-packages\numpy\\_distributor\_init.py:30: UserWarning: loaded more than 1 DLL from .libs:

C:\Users\Alfonso Blanco\.conda\envs\alfonso1\lib\site-packages\numpy\.libs\libopenblas.FB5AE2TYXYH2IJRDKGDGQ3XBKLKTF43H.gfortran-win\_amd64.dll

C:\Users\Alfonso Blanco\.conda\envs\alfonso1\lib\site-packages\numpy\.libs\libopenblas64\_\_v0.3.21-gcc\_10\_3\_0.dll

warnings.warn("loaded more than 1 DLL from .libs:"

New https://pypi.org/project/ultralytics/8.2.63 available 😃 Update with 'pip install -U ultralytics'

Ultralytics YOLOv8.2.52 🚀 Python-3.9.16 torch-1.13.1+cpu CPU (11th Gen Intel Core(TM) i5-1155G7 2.50GHz)

WARNING ⚠️ Upgrade to torch>=2.0.0 for deterministic training.

engine\trainer: task=detect, mode=train, model=yolov10n.pt, data=data.yaml, epochs=200, time=None, patience=100, batch=16, imgsz=640, save=True, save\_period=-1, cache=False, device=cpu, workers=8, project=runs/train, name=exp2, exist\_ok=False, pretrained=True, optimizer=SGD, verbose=True, seed=0, deterministic=True, single\_cls=False, rect=False, cos\_lr=False, close\_mosaic=10, resume=False, amp=True, fraction=1.0, profile=False, freeze=None, multi\_scale=True, overlap\_mask=True, mask\_ratio=4, dropout=0.0, val=True, split=val, save\_json=False, save\_hybrid=False, conf=None, iou=0.7, max\_det=300, half=False, dnn=False, plots=True, source=None, vid\_stride=1, stream\_buffer=False, visualize=False, augment=False, agnostic\_nms=False, classes=None, retina\_masks=False, embed=None, show=False, save\_frames=False, save\_txt=False, save\_conf=False, save\_crop=False, show\_labels=True, show\_conf=True, show\_boxes=True, line\_width=None, format=torchscript, keras=False, optimize=False, int8=False, dynamic=False, simplify=False, opset=None, workspace=4, nms=False, lr0=0.01, lrf=0.1, momentum=0.937, weight\_decay=0.0005, warmup\_epochs=3.0, warmup\_momentum=0.8, warmup\_bias\_lr=0.1, box=7.5, cls=0.5, dfl=1.5, pose=12.0, kobj=1.0, label\_smoothing=0.0, nbs=64, hsv\_h=0.015, hsv\_s=0.7, hsv\_v=0.4, degrees=0.0, translate=0.1, scale=0.5, shear=0.0, perspective=0.0, flipud=0.0, fliplr=0.5, bgr=0.0, mosaic=1.0, mixup=0.0, copy\_paste=0.0, auto\_augment=randaugment, erasing=0.4, crop\_fraction=1.0, cfg=None, tracker=botsort.yaml, save\_dir=runs\train\exp2

Overriding model.yaml nc=80 with nc=1

from n params module arguments

0 -1 1 464 ultralytics.nn.modules.conv.Conv [3, 16, 3, 2]

1 -1 1 4672 ultralytics.nn.modules.conv.Conv [16, 32, 3, 2]

2 -1 1 7360 ultralytics.nn.modules.block.C2f [32, 32, 1, True]

3 -1 1 18560 ultralytics.nn.modules.conv.Conv [32, 64, 3, 2]

4 -1 2 49664 ultralytics.nn.modules.block.C2f [64, 64, 2, True]

5 -1 1 9856 ultralytics.nn.modules.block.SCDown [64, 128, 3, 2]

6 -1 2 197632 ultralytics.nn.modules.block.C2f [128, 128, 2, True]

7 -1 1 36096 ultralytics.nn.modules.block.SCDown [128, 256, 3, 2]

8 -1 1 460288 ultralytics.nn.modules.block.C2f [256, 256, 1, True]

9 -1 1 164608 ultralytics.nn.modules.block.SPPF [256, 256, 5]

10 -1 1 249728 ultralytics.nn.modules.block.PSA [256, 256]

11 -1 1 0 torch.nn.modules.upsampling.Upsample [None, 2, 'nearest']

12 [-1, 6] 1 0 ultralytics.nn.modules.conv.Concat [1]

13 -1 1 148224 ultralytics.nn.modules.block.C2f [384, 128, 1]

14 -1 1 0 torch.nn.modules.upsampling.Upsample [None, 2, 'nearest']

15 [-1, 4] 1 0 ultralytics.nn.modules.conv.Concat [1]

16 -1 1 37248 ultralytics.nn.modules.block.C2f [192, 64, 1]

17 -1 1 36992 ultralytics.nn.modules.conv.Conv [64, 64, 3, 2]

18 [-1, 13] 1 0 ultralytics.nn.modules.conv.Concat [1]

19 -1 1 123648 ultralytics.nn.modules.block.C2f [192, 128, 1]

20 -1 1 18048 ultralytics.nn.modules.block.SCDown [128, 128, 3, 2]

21 [-1, 10] 1 0 ultralytics.nn.modules.conv.Concat [1]

22 -1 1 282624 ultralytics.nn.modules.block.C2fCIB [384, 256, 1, True, True]

23 [16, 19, 22] 1 861718 ultralytics.nn.modules.head.v10Detect [1, [64, 128, 256]]

YOLOv10n summary: 385 layers, 2707430 parameters, 2707414 gradients, 8.4 GFLOPs

Transferred 493/595 items from pretrained weights

TensorBoard: Start with 'tensorboard --logdir runs\train\exp2', view at http://localhost:6006/

Freezing layer 'model.23.dfl.conv.weight'

train: Scanning C:\Kidney\_Stone-Yolov10\train\labels.cache... 1054 images, 1 backgrounds, 0 corrupt: 100%|█████████

CryptographyDeprecationWarning: Blowfish has been deprecated

albumentations: Blur(p=0.01, blur\_limit=(3, 7)), MedianBlur(p=0.01, blur\_limit=(3, 7)), ToGray(p=0.01), CLAHE(p=0.01, clip\_limit=(1, 4.0), tile\_grid\_size=(8, 8))

val: Scanning C:\Kidney\_Stone-Yolov10\valid\labels.cache... 123 images, 0 backgrounds, 0 corrupt: 100%|██████████|

Plotting labels to runs\train\exp2\labels.jpg...

optimizer: SGD(lr=0.01, momentum=0.937) with parameter groups 95 weight(decay=0.0), 108 weight(decay=0.0005), 107 bias(decay=0.0)

TensorBoard: model graph visualization added ✅

Image sizes 640 train, 640 val

Using 0 dataloader workers

Logging results to runs\train\exp2

Starting training for 200 epochs...

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

1/200 0G 4.754 7.872 2.603 40 672: 100%|██████████| 66/66 [1:50:51<00:0

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 2.71e-05 0.00308 2.22e-05 1.71e-05

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

2/200 0G 4.654 4.134 2.473 37 512: 100%|██████████| 66/66 [20:51<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.0225 0.751 0.382 0.149

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

3/200 0G 4.789 4.234 2.498 47 608: 100%|██████████| 66/66 [22:35<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.452 0.4 0.348 0.11

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

4/200 0G 4.819 3.89 2.55 28 672: 100%|██████████| 66/66 [22:15<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.495 0.422 0.385 0.124

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

5/200 0G 4.822 3.669 2.545 50 800: 100%|██████████| 66/66 [33:49<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.399 0.454 0.365 0.126

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

6/200 0G 4.712 3.19 2.462 52 768: 100%|██████████| 66/66 [21:43<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.546 0.471 0.453 0.162

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

7/200 0G 4.61 2.994 2.449 41 672: 100%|██████████| 66/66 [21:09<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.542 0.474 0.479 0.177

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

8/200 0G 4.659 2.929 2.415 52 544: 100%|██████████| 66/66 [21:06<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.553 0.569 0.492 0.169

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

9/200 0G 4.6 2.825 2.406 44 448: 100%|██████████| 66/66 [22:04<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.496 0.415 0.406 0.149

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

10/200 0G 4.509 2.75 2.443 51 896: 100%|██████████| 66/66 [27:08<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.636 0.572 0.562 0.206

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

11/200 0G 4.519 2.698 2.474 43 896: 100%|██████████| 66/66 [29:20<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.56 0.554 0.489 0.177

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

12/200 0G 4.547 2.628 2.414 40 576: 100%|██████████| 66/66 [22:07<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [8:3

all 123 325 0.666 0.576 0.598 0.215

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

13/200 0G 4.472 2.507 2.417 39 832: 100%|██████████| 66/66 [13:51:07<00:

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.638 0.563 0.573 0.202

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

14/200 0G 4.443 2.609 2.463 52 672: 100%|██████████| 66/66 [28:53<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.68 0.557 0.608 0.231

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

15/200 0G 4.461 2.591 2.427 40 704: 100%|██████████| 66/66 [26:51<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.587 0.609 0.561 0.211

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

16/200 0G 4.484 2.498 2.423 47 928: 100%|██████████| 66/66 [25:36<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.59 0.542 0.542 0.204

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

17/200 0G 4.465 2.512 2.372 29 864: 100%|██████████| 66/66 [22:32<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.624 0.56 0.588 0.212

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

18/200 0G 4.436 2.467 2.372 33 736: 100%|██████████| 66/66 [27:03<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.648 0.6 0.582 0.218

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

19/200 0G 4.399 2.451 2.374 60 320: 100%|██████████| 66/66 [23:43<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.697 0.628 0.661 0.257

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

20/200 0G 4.434 2.383 2.411 56 768: 100%|██████████| 66/66 [8:45:40<00:0

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.685 0.6 0.612 0.231

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

21/200 0G 4.368 2.355 2.392 49 448: 100%|██████████| 66/66 [23:05<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.697 0.608 0.642 0.247

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

22/200 0G 4.355 2.345 2.389 72 896: 100%|██████████| 66/66 [23:11<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.703 0.643 0.619 0.245

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

23/200 0G 4.421 2.366 2.342 35 576: 100%|██████████| 66/66 [21:49<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.637 0.603 0.616 0.22

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

24/200 0G 4.313 2.412 2.376 44 960: 100%|██████████| 66/66 [24:31<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.621 0.582 0.575 0.22

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

25/200 0G 4.349 2.399 2.351 39 544: 100%|██████████| 66/66 [2:33:06<00:0

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.623 0.558 0.576 0.204

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

26/200 0G 4.36 2.293 2.333 37 416: 100%|██████████| 66/66 [21:46<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.709 0.63 0.633 0.241

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

27/200 0G 4.323 2.326 2.36 42 704: 100%|██████████| 66/66 [23:04<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.676 0.612 0.633 0.242

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

28/200 0G 4.407 2.366 2.357 33 576: 100%|██████████| 66/66 [22:20<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.677 0.612 0.618 0.225

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

29/200 0G 4.262 2.285 2.361 34 896: 100%|██████████| 66/66 [24:38<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.686 0.625 0.653 0.254

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

30/200 0G 4.324 2.254 2.338 40 384: 100%|██████████| 66/66 [23:01<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.707 0.637 0.665 0.255

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

31/200 0G 4.34 2.238 2.345 34 352: 100%|██████████| 66/66 [24:14<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.676 0.631 0.644 0.26

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

32/200 0G 4.346 2.295 2.353 48 544: 100%|██████████| 66/66 [2:42:17<00:0

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.672 0.668 0.653 0.254

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

33/200 0G 4.25 2.268 2.365 36 704: 100%|██████████| 66/66 [24:39<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.673 0.664 0.683 0.272

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

34/200 0G 4.223 2.243 2.344 51 768: 100%|██████████| 66/66 [39:46<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.695 0.665 0.67 0.252

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

35/200 0G 4.32 2.269 2.336 47 832: 100%|██████████| 66/66 [23:27<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.704 0.622 0.674 0.242

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

36/200 0G 4.17 2.222 2.272 34 800: 100%|██████████| 66/66 [23:04<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.721 0.64 0.683 0.256

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

37/200 0G 4.238 2.167 2.285 28 512: 100%|██████████| 66/66 [40:30<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.7 0.612 0.625 0.25

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

38/200 0G 4.226 2.232 2.342 43 864: 100%|██████████| 66/66 [26:04<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.721 0.622 0.69 0.277

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

39/200 0G 4.213 2.196 2.351 32 800: 100%|██████████| 66/66 [34:08<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.69 0.689 0.718 0.271

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

40/200 0G 4.23 2.16 2.294 39 512: 100%|██████████| 66/66 [24:19<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.784 0.652 0.712 0.284

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

41/200 0G 4.221 2.131 2.25 38 512: 100%|██████████| 66/66 [32:28<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.689 0.689 0.687 0.274

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

42/200 0G 4.203 2.147 2.317 30 480: 100%|██████████| 66/66 [25:22<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [8:5

all 123 325 0.723 0.684 0.671 0.261

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

43/200 0G 4.158 2.149 2.302 51 544: 100%|██████████| 66/66 [27:56<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.713 0.64 0.674 0.269

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

44/200 0G 4.196 2.165 2.332 25 896: 100%|██████████| 66/66 [29:14<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 4/4 [00:

all 123 325 0.692 0.679 0.696 0.259

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

45/200 0G 4.05 2.067 2.261 43 736: 35%|███▍ | 23/66 [08:37<14:30,