(alfonso1) c:\Brain-Tumor\_SVR>python Train\_sagittal\_t1wce\_2\_class\_Yolov10.py --resume C:\Brain-Tumor\_SVR\runs\train\exp\weights\last

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/8.2.75 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=sagittal\_t1wce\_2.yaml, epochs=50, time=None, patience=100, batch=-1, 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=2

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 862108 ultralytics.nn.modules.head.v10Detect [2, [64, 128, 256]]

YOLOv10n summary: 385 layers, 2707820 parameters, 2707804 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'

AutoBatch: Computing optimal batch size for imgsz=640 at 60.0% CUDA memory utilization.

AutoBatch: ⚠️ intended for CUDA devices, using default batch-size 16

train: Scanning C:\Brain-Tumor\_SVR\sagittal\_t1wce\_2\_class\labels\train.cache... 264 images, 0 backgrounds, 0 corrup

C:\Users\Alfonso Blanco\.conda\envs\alfonso1\lib\site-packages\paramiko\transport.py:219: CryptographyDeprecationWarning: Blowfish has been deprecated

"class": algorithms.Blowfish,

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:\Brain-Tumor\_SVR\sagittal\_t1wce\_2\_class\labels\test.cache... 58 images, 0 backgrounds, 0 corrupt: 1

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 50 epochs...

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

1/50 0G 3.111 13.07 2.65 11 800: 100%|██████████| 17/17 [04:03<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0 0 0 0

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

2/50 0G 2.692 11.47 2.346 9 352: 100%|██████████| 17/17 [05:36<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.000377 0.0744 0.000247 3.69e-05

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

3/50 0G 2.723 10.07 2.424 13 544: 100%|██████████| 17/17 [06:59<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.000619 0.152 0.00902 0.00772

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

4/50 0G 2.785 7.788 2.249 11 448: 100%|██████████| 17/17 [05:37<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.00302 0.762 0.304 0.224

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

5/50 0G 2.661 7.624 2.292 13 544: 100%|██████████| 17/17 [07:28<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.00285 0.762 0.218 0.143

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

6/50 0G 3.004 7.366 2.401 12 512: 100%|██████████| 17/17 [05:36<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.474 0.166 0.26 0.172

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

7/50 0G 3.084 6.714 2.303 17 384: 100%|██████████| 17/17 [05:51<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.371 0.513 0.316 0.18

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

8/50 0G 2.951 6.01 2.417 15 480: 100%|██████████| 17/17 [04:56<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.331 0.186 0.183 0.114

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

9/50 0G 2.859 6.484 2.417 12 928: 100%|██████████| 17/17 [05:45<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.261 0.329 0.236 0.142

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

10/50 0G 2.775 6.046 2.338 8 864: 100%|██████████| 17/17 [1:55:48<00:0

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.309 0.398 0.302 0.189

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

11/50 0G 2.694 5.564 2.413 9 896: 100%|██████████| 17/17 [07:07<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.294 0.53 0.392 0.24

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

12/50 0G 2.743 5.29 2.378 11 416: 100%|██████████| 17/17 [06:14<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.332 0.388 0.316 0.202

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

13/50 0G 2.848 5.189 2.406 13 512: 100%|██████████| 17/17 [06:41<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.358 0.485 0.386 0.246

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

14/50 0G 2.604 4.782 2.319 11 544: 100%|██████████| 17/17 [06:05<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.362 0.469 0.347 0.216

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

15/50 0G 2.735 4.48 2.252 16 416: 100%|██████████| 17/17 [04:59<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.401 0.54 0.407 0.267

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

16/50 0G 2.606 4.796 2.357 17 800: 100%|██████████| 17/17 [08:06<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.356 0.513 0.359 0.249

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

17/50 0G 2.635 4.315 2.361 18 416: 100%|██████████| 17/17 [07:36<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.478 0.582 0.441 0.273

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

18/50 0G 2.632 4.229 2.341 8 800: 100%|██████████| 17/17 [07:01<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.457 0.664 0.442 0.297

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

19/50 0G 2.402 3.749 2.171 16 576: 100%|██████████| 17/17 [04:44<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.442 0.65 0.435 0.301

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

20/50 0G 2.484 4.003 2.258 9 672: 100%|██████████| 17/17 [07:31<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.373 0.673 0.448 0.312

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

21/50 0G 2.414 4.005 2.288 15 928: 100%|██████████| 17/17 [07:39<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.411 0.613 0.438 0.315

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

22/50 0G 2.426 3.645 2.195 8 672: 100%|██████████| 17/17 [05:55<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.437 0.461 0.431 0.304

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

23/50 0G 2.428 3.677 2.191 13 512: 100%|██████████| 17/17 [44:02<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.456 0.596 0.495 0.353

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

24/50 0G 2.328 3.396 2.127 12 608: 100%|██████████| 17/17 [05:10<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.414 0.719 0.497 0.356

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

25/50 0G 2.417 3.303 2.18 20 352: 100%|██████████| 17/17 [06:12<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.473 0.488 0.409 0.267

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

26/50 0G 2.424 3.366 2.187 14 704: 100%|██████████| 17/17 [05:17<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.432 0.616 0.421 0.311

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

27/50 0G 2.53 3.356 2.21 18 352: 100%|██████████| 17/17 [21:27<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.457 0.65 0.444 0.318

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

28/50 0G 2.303 3.343 2.194 8 608: 100%|██████████| 17/17 [35:24<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.465 0.556 0.406 0.27

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

29/50 0G 2.166 3.096 2.124 11 576: 100%|██████████| 17/17 [07:01<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.489 0.565 0.43 0.296

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

30/50 0G 2.367 3.207 2.199 15 704: 100%|██████████| 17/17 [06:22<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.422 0.507 0.397 0.246

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

31/50 0G 2.277 3.111 2.183 13 736: 100%|██████████| 17/17 [06:29<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.399 0.51 0.404 0.245

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

32/50 0G 2.307 3.118 2.124 16 384: 100%|██████████| 17/17 [06:42<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.468 0.615 0.438 0.298

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

33/50 0G 2.272 3.062 2.064 9 672: 100%|██████████| 17/17 [05:01<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.433 0.735 0.494 0.376

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

34/50 0G 2.272 2.953 2.114 15 512: 100%|██████████| 17/17 [05:04<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.486 0.677 0.529 0.398

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

35/50 0G 2.256 2.872 2.09 16 352: 100%|██████████| 17/17 [06:01<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.42 0.747 0.495 0.347

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

36/50 0G 2.158 2.877 2.113 15 640: 100%|██████████| 17/17 [07:28<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.504 0.601 0.514 0.357

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

37/50 0G 2.153 2.875 2.071 12 704: 100%|██████████| 17/17 [05:14<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.458 0.616 0.493 0.348

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

38/50 0G 2.271 2.917 2.14 12 736: 100%|██████████| 17/17 [05:59<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.414 0.674 0.503 0.347

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

39/50 0G 2.132 2.699 2.064 9 704: 100%|██████████| 17/17 [06:14<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.407 0.736 0.486 0.345

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

40/50 0G 2.209 2.824 2.107 11 480: 100%|██████████| 17/17 [05:24<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.466 0.773 0.486 0.352

Closing dataloader mosaic

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))

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

41/50 0G 1.938 2.781 1.992 9 352: 100%|██████████| 17/17 [06:03<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [4:0

all 58 64 0.489 0.748 0.527 0.383

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

42/50 0G 1.928 2.626 1.954 9 512: 100%|██████████| 17/17 [5:24:41<00:0

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.472 0.646 0.501 0.347

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

43/50 0G 1.824 2.641 1.972 8 768: 100%|██████████| 17/17 [06:58<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.511 0.549 0.505 0.366

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

44/50 0G 1.75 2.635 1.939 10 672: 100%|██████████| 17/17 [06:53<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.463 0.693 0.498 0.371

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

45/50 0G 1.841 2.536 1.939 8 704: 100%|██████████| 17/17 [05:23<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.534 0.573 0.507 0.368

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

46/50 0G 1.77 2.503 1.951 8 480: 100%|██████████| 17/17 [06:26<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.403 0.635 0.494 0.374

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

47/50 0G 1.606 2.388 1.882 9 608: 100%|██████████| 17/17 [05:58<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.44 0.707 0.5 0.362

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

48/50 0G 1.788 2.403 1.932 8 448: 100%|██████████| 17/17 [04:50<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.425 0.676 0.494 0.361

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

49/50 0G 1.731 2.344 1.879 9 384: 100%|██████████| 17/17 [05:39<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.474 0.673 0.518 0.375

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

50/50 0G 1.708 2.302 1.876 8 448: 100%|██████████| 17/17 [04:49<00:00,

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.535 0.587 0.535 0.385

50 epochs completed in 18.040 hours.

Optimizer stripped from runs\train\exp2\weights\last.pt, 5.7MB

Optimizer stripped from runs\train\exp2\weights\best.pt, 5.7MB

Validating runs\train\exp2\weights\best.pt...

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

YOLOv10n summary (fused): 285 layers, 2695196 parameters, 0 gradients, 8.2 GFLOPs

Class Images Instances Box(P R mAP50 mAP50-95): 100%|██████████| 2/2 [00:

all 58 64 0.483 0.669 0.528 0.397

negative 26 29 0.411 0.625 0.416 0.275

positive 32 35 0.555 0.714 0.641 0.519

Speed: 3.4ms preprocess, 382.0ms inference, 0.0ms loss, 0.6ms postprocess per image

Results saved to runs\train\exp2

(alfonso1) c:\Brain-