1 "G:\Car Number Plate Detection\Object Detection Using YOLOv8 (traffic sign)\venv\Scripts\python.exe" "G:\Car Number Plate Detection\Object Detection Using YOLOv8 (traffic sign)\main_train.py"

engine\trainer: task=detect, mode=train, model=yolov8n.yaml, data=Custom_data.yaml, epochs=3, patience=50, batch=16, imgsz= 640, save=True, save_period=-1, cache=False, device=None, workers=8, project=None, name=train2, exist_ok=False, pretrained= True, optimizer=auto, verbose=True, seed=0, deterministic=True, single_cls=False, rect=False, cos_lr=False, close_mosaic=10 , split=val, save_json=False, save_hybrid=False, conf=None, iou=0.7, max_det=300, half=False, dnn=False, plots=True, source , resume=False, amp=True, fraction=1.0, profile=False, freeze=None, overlap_mask=True, mask_ratio=4, dropout=0.0, val=True =None, vid_stride=1, stream_buffer=False, visualize=False, augment=False, agnostic_nms=False, classes=None, retina_masks= False, show=False, save_frames=False, save_txt=False, save_conf=False, save_crop=False, show_labels=True, show_conf=True, Ultralytics YOLOv8.0.221 🛭 Python-3.10.4 torch-2.1.1+cpu CPU (Intel Core(TM) i3-1005G1 1.20GHz)

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, 30 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=0.01, momentum=0.937, weight_decay=0.0005, warmup_epochs=3.0,

mosaic=1.0, mixup=0.0, copy_paste=0.0, cfg=None, tracker=botsort.yaml, save_dir=runs\detect\train2 31 Overriding model.yaml nc=80 with nc=36

	arguments	[3, 16, 3, 2]	[16, 32, 3, 2]	[32, 32, 1, True]	[32, 64, 3, 2]	[64, 64, 2, True]	[64, 128, 3, 2]	[128, 128, 2, True]	[128, 256, 3, 2]	[256, 256, 1, True]	[256, 256, 5]	[None, 2, 'nearest']	[1]	[384, 128, 1]	[None, 2, 'nearest']	[1]	[192, 64, 1]	[64, 64, 3, 2]	[1]	[192, 128, 1]	[128, 128, 3, 2]	[1]	[384, 256, 1]	[36, [64, 128, 256]]	
	s module	4 ultralytics.nn.modules.conv.Conv	2 ultralytics.nn.modules.conv.Conv		0 ultralytics.nn.modules.conv.Conv	4 ultralytics.nn.modules.block.C2f	4 ultralytics.nn.modules.conv.Conv		4 ultralytics.nn.modules.conv.Conv		8 ultralytics.nn.modules.block.SPPF	0 torch.nn.modules.upsampling.Upsample	<pre>0 ultralytics.nn.modules.conv.Concat</pre>	4 ultralytics.nn.modules.block.C2f	0 torch.nn.modules.upsampling.Upsample	<pre>0 ultralytics.nn.modules.conv.Concat</pre>							6 ultralytics.nn.modules.block.C2f	2 ultralytics.nn.modules.head.Detect	8 parameters, 3017852 gradients, 8.2 GFLOPs
	params	797	4672	7360	18560	79965	73984	197632	295424	460288	164608	•	0	148224	•	•	37248	36992	•	123648	147712	•	493026	758332	3017868
	from n	-1 1	-1 1	-1 1	-1 1					-1 1			, 6]	-1 1	-1		-1	-1	[-1, 12] 1	-1	-1	[-1, 9] 1	-1 1	22 [15, 18, 21] 1	ı sυmmary: 225 layers,
32	33	34 0	35 1	36 2	37 3	38 4	39 5	9 05	41 7	42 8	43 9	44 10	45 11	46 12	47 13	48 14	49 15	50 16	51 17	52 18	53 19	54 20	55 21	56 22	57 Y0L0v8r
								•	•	•	•	•	•	-	-	•	•				_,	_,			

59 Freezing layer 'model.22.dfl.conv.weight'

TrafficSignLocalizationandDetection\train\labels.cache... 1392 images, 0 backgrounds, 0 corrupt: 100%| 60 train: Scanning G:\Car Number Plate Detection\Object Detection Using YOLOv8 (traffic sign)\ [00:00<?, ?it/s]

1392/1392

File - main train (1)

TrafficSignLocalizationandDetection\valid\labels.cache... 173 images, 0 backgrounds, 0 corrupt: 100%| 61 val: Scanning G:\Car Number Plate Detection\Object Detection Using YOLOv8 (traffic sign)\ 00:00<?, ?it/s]

Plotting labels to runs\detect\train2\labels.jpg... 62

optimizer: 'optimizer=auto' found, ignoring 'lr0=0.01' and 'momentum=0.937' and determining best 'optimizer', 'lr0' and momentum' automatically.. 63

optimizer: AdamW(lr=0.00025, momentum=0.9) with parameter groups 57 weight(decay=0.0), 64 weight(decay=0.0005), 63 bias(decay=0.094

Image sizes 640 train, 640 val 9

66 Using 0 dataloader workers

67 Logging results to runs\detect\train2

Starting training for 3 epochs... 89

6/6 [01:01<00:00 6/6 [01:00<00:00 6/6 [01:05<00:00 87/87 [16:44<00:00, 11.54s/ 87/87 [20:54<00:00, 14.42s/ 87/87 [17:37<00:00, 12.16s/ mAP50-95): 100%| mAP50-95): 100%| mAP50-95): 100% 0 0.000228 640: 100% 640: 100% 640: 100% mAP50 mAP50 Size mAP50 Size 0.000628 Size 0 0.0078 0.00546 Instances ≃ 2 Instances 2 0.0904 27 0 Instances dfl_loss dfl_loss dfl_loss Box(P 4.182 Box(P Box(P 0 0.00102 0.00285 4.416 4.019 cls_loss 7.285 212 cls_loss 6.936 212 cls_loss Instances 212 Instances 6.618 Images Instances | 0/87 [00:00<?, ?it/s] Images box_loss 3.321 Images box_loss 173 3.169 173 box_loss 173 Class GPU_mem Class GPU_mem 90 90 Class all GPU_mem all all 10.10s/it] 10.18s/it] 10.84s/it] Epoch Epoch Epoch %0 it] it] ij 74 75 76 69 70 71 72 78 79 80 81 77 82 83 84

85 3 epochs completed in 0.974 hours.

86 Optimizer stripped from runs\detect\train2\weights\last.pt, 6.3MB 87 Optimizer stripped from runs\detect\train2\weights\best.pt, 6.3MB

| 6/6 [00:49<00:

0 0								
89	Validating runs\detect\t 1 +nalv+ice VOLOv8 @ 221	in2\weigh Pv+hon-7	ts\best.pt. 10 / torch	t.pt +orch-2 1 1+cp.	CPII (Tn+a)	; (MT) and J	. 1 190661 1	20GH-)
91	YOLOv8n summary (fused):	168 layers,	\sim 1	n-z.i.itcpu parameters,	linter adients	, 8.1 GFL	1 100001	(2000
\sim	Class	Images In	Instances	Box(P	~	, m	mAP50-95):	100%
	00, 8.30s/it]							
~	all	173	212	0.00283	0.0904	0.00774	0.0039	
76	Danger Ahead	173	7	0	0	0	0	
	Give Way	173	9	0	0	0	0	
96	Go Right or Straight	173	T	0	0	0	0	
4	Go Straight	173	Т	0	0	0	0	
86	Huddle Road	173	2	0	0	0	0	
66	Left Sharp Curve	173	3	0	0	0	0	
100	No Entry	173	11	0.00613	0.0909	0.0344	0.0138	
	No Over Taking Trucks	173	Н	0	0	0	0	
٠.	No Over Taking	173	2	0	0	0	0	
	No Stopping	173	Н	0	0	0	0	
_	No Waiting	173	2	0	0	0	0	
	Pedestrian	173	2	0	0	0	0	
_	Right Curve Ahead	173	9	0	0	0	0	
	Right Sharp Curve	173	3	0	0	0	0	
108	Road Work	173	∞	0	0	0	0	
~	RoundAbout	173	Н	0	0	0	0	
_		173	2	0	0	0	0	
	S	173	T	0	0	0	0	
٠.	Speed Limit 100	173	12	0.00174	0.0833	0.000999	0.000499	
	Speed Limit 120	173	3	0	0	0	0	
	Limit	173	23	0.0057	0.739	.03	0.0115	
	Limit	173	20	0.0046	0.35	0.0156	0.00345	
. ^	Limit	173	14	•	٧.	0.0107	•	
_	Speed Limit 70	173	14	0.00459	٧.	0.0802	0.0622	
	Limi	173	14	0.0236	0.429	0.0307	0.0123	
_	Stop	173	33	0	0	0	0	
120	Truck Sign	173	Т	0	0	0	0	
	Turn Left	173	T	0	0	0	0	
<u> </u>	Turn Right	173	14	0.0294	0.0714	0.0166	0.00497	
	0000000000 CMO L . F 0				7	2000	(;	

123 Speed: 5.0ms preprocess, 266.9ms inference, 0.0ms loss, 2.1ms postprocess per image

- File main_train (1)
- 124 Results saved to runs\detect\train2 125 126 Process finished with exit code 0 127