

Invidia-smi

Sat Apr 8 19:46:23 2023

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NVIDIA-SMI		525.85.12		Driver Version: 525.85.12		CUDA Version: 12.0			
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GPU Name		Persistence-M		Bus-Id	Disp.A	Volatile Uncorr. ECC			
Fan	Temp	Perf	Pwr:Usage/Cap	Memory-Usage		GPU-Util	Compute M.	MIG M.	
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N/A	61C	P8	11W / 70W	0MiB / 15360MiB			0%	Default	N/A
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Processes:							
GPU	GI	CI	PID	Type	Process name	GPU Memory	
	ID	ID				Usage	
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No running processes found							
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!pip install ultralytics

from ultralytics import YOLO

Looking in indexes: <https://pypi.org/simple>, <https://us-python.pkg.dev/colab-wheels/public/simple/>

Collecting ultralytics

Downloading ultralytics-8.0.71-py3-none-any.whl (510 kB)

510.7/510.7 KB 34.4 MB/s eta 0:00:00

Requirement already satisfied: PyYAML>=5.3.1 in /usr/local/lib/python3.9/dist-packages (from ultralytics) (6.0)
Requirement already satisfied: seaborn>=0.11.0 in /usr/local/lib/python3.9/dist-packages (from ultralytics) (0.12.2)
Requirement already satisfied: numpy>=1.21.6 in /usr/local/lib/python3.9/dist-packages (from ultralytics) (1.22.4)
Requirement already satisfied: matplotlib>=3.2.2 in /usr/local/lib/python3.9/dist-packages (from ultralytics) (3.7.1)
Requirement already satisfied: pandas>=1.1.4 in /usr/local/lib/python3.9/dist-packages (from ultralytics) (1.4.4)
Requirement already satisfied: scipy>=1.4.1 in /usr/local/lib/python3.9/dist-packages (from ultralytics) (1.10.1)
Requirement already satisfied: psutil in /usr/local/lib/python3.9/dist-packages (from ultralytics) (5.9.4)
Requirement already satisfied: opencv-python>=4.6.0 in /usr/local/lib/python3.9/dist-packages (from ultralytics) (4.7.0.72)
Requirement already satisfied: torch>=1.7.0 in /usr/local/lib/python3.9/dist-packages (from ultralytics) (2.0.0+cu118)
Requirement already satisfied: torchvision>=0.8.1 in /usr/local/lib/python3.9/dist-packages (from ultralytics) (0.15.1+cu118)
Requirement already satisfied: tqdm>=4.64.0 in /usr/local/lib/python3.9/dist-packages (from ultralytics) (4.65.0)
Requirement already satisfied: requests>=2.23.0 in /usr/local/lib/python3.9/dist-packages (from ultralytics) (2.27.1)
Requirement already satisfied: Pillow>=7.1.2 in /usr/local/lib/python3.9/dist-packages (from ultralytics) (8.4.0)

Collecting thop>=0.1.1

Downloading thop-0.1.1.post2209072238-py3-none-any.whl (15 KB)

Collecting sentry-sdk

Downloading sentry_sdk-1.19.1-py2.py3-none-any.whl (199 kB)

199.2/199.2 KB 18.1 MB/s eta 0:00:00

Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.9/dist-packages (from matplotlib>=3.2.2->ultralytics) (0.11.0)
Requirement already satisfied: contourpy>=1.0.1 in /usr/local/lib/python3.9/dist-packages (from matplotlib>=3.2.2->ultralytics) (1.0.7)
Requirement already satisfied: python-dateutil>=2.7 in /usr/local/lib/python3.9/dist-packages (from matplotlib>=3.2.2->ultralytics) (2.8.2)
Requirement already satisfied: fonttools>=4.22.0 in /usr/local/lib/python3.9/dist-packages (from matplotlib>=3.2.2->ultralytics) (4.22.0)
Requirement already satisfied: pyparsing>=2.3.1 in /usr/local/lib/python3.9/dist-packages (from matplotlib>=3.2.2->ultralytics) (3.0.9)
Requirement already satisfied: importlib-resources>=3.2.0 in /usr/local/lib/python3.9/dist-packages (from matplotlib>=3.2.2->ultralytics) (5.12.0)
Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.9/dist-packages (from matplotlib>=3.2.2->ultralytics) (23.1)
Requirement already satisfied: kiwisolver>=1.0.1 in /usr/local/lib/python3.9/dist-packages (from matplotlib>=3.2.2->ultralytics) (1.4.5)
Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.9/dist-packages (from pandas>=1.1.4->ultralytics) (2022.7.1)
Requirement already satisfied: charset-normalizer>=2.0.0 in /usr/local/lib/python3.9/dist-packages (from requests>=2.23.0->ultralytics) (2.0.12)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.9/dist-packages (from requests>=2.23.0->ultralytics) (2022.12.7)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in /usr/local/lib/python3.9/dist-packages (from requests>=2.23.0->ultralytics) (1.26.15)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.9/dist-packages (from requests>=2.23.0->ultralytics) (3.4)
Requirement already satisfied: typing-extensions in /usr/local/lib/python3.9/dist-packages (from torch>=1.7.0->ultralytics) (4.5.0)
Requirement already satisfied: jinja2 in /usr/local/lib/python3.9/dist-packages (from torch>=1.7.0->ultralytics) (3.1.2)
Requirement already satisfied: networkx in /usr/local/lib/python3.9/dist-packages (from torch>=1.7.0->ultralytics) (3.0)
Requirement already satisfied: sympy in /usr/local/lib/python3.9/dist-packages (from torch>=1.7.0->ultralytics) (1.11.1)
Requirement already satisfied: filelock in /usr/local/lib/python3.9/dist-packages (from torch>=1.7.0->ultralytics) (3.10.7)
Requirement already satisfied: triton==2.0.0 in /usr/local/lib/python3.9/dist-packages (from torch>=1.7.0->ultralytics) (2.0.0)
Requirement already satisfied: cmake in /usr/local/lib/python3.9/dist-packages (from triton==2.0.0->torch>=1.7.0->ultralytics) (3.25.0)
Requirement already satisfied: lit in /usr/local/lib/python3.9/dist-packages (from triton==2.0.0->torch>=1.7.0->ultralytics) (16.0.6)
Requirement already satisfied: zipp>=3.1.0 in /usr/local/lib/python3.9/dist-packages (from importlib-resources>=3.2.0->matplotlib>=3.2.2->ultralytics) (3.10.0)
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.9/dist-packages (from python-dateutil>=2.7->matplotlib>=3.2.2->ultralytics) (1.16.0)
Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/lib/python3.9/dist-packages (from jinja2->torch>=1.7.0->ultralytics) (2.0.1)
Requirement already satisfied: mpmath>=0.19 in /usr/local/lib/python3.9/dist-packages (from sympy->torch>=1.7.0->ultralytics) (1.3.0)
Installing collected packages: sentry-sdk, thop, ultralytics
Successfully installed sentry-sdk-1.19.1 thop-0.1.1.post2209072238 ultralytics-8.0.71

!yolo task=detect mode=train model=yolov8n.pt data="..[content/drive/MyDrive/Yolo_Animal/animal.yaml](#)" epochs=300 imgsz=736

```

libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
Class      Images  Instances  Box(P      R      mAP50  mAP50-95): 54% 7/13 [00:08<00:06, 1.07s/it]libp
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
Class      Images  Instances  Box(P      R      mAP50  mAP50-95): 100% 13/13 [00:11<00:00, 1.14it/s]
all        408      459      0.83      0.822  0.863  0.566
Stopping training early as no improvement observed in last 50 epochs. Best results observed at epoch 188, best model saved as be
To update EarlyStopping(patience=50) pass a new patience value, i.e. `patience=300` or use `patience=0` to disable EarlyStopping

238 epochs completed in 3.921 hours.
Optimizer stripped from runs/detect/train3/weights/last.pt, 6.3MB
Optimizer stripped from runs/detect/train3/weights/best.pt, 6.3MB

Validating runs/detect/train3/weights/best.pt...
Ultralytics YOLOv8.0.71 Python-3.9.16 torch-2.0.0+cu118 CUDA:0 (Tesla T4, 15102MiB)
Model summary (fused): 168 layers, 3007988 parameters, 0 gradients, 8.1 GFLOPs
Class      Images  Instances  Box(P      R      mAP50  mAP50-95): 23% 3/13 [00:04<00:14, 1.42s/it]libp
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
Class      Images  Instances  Box(P      R      mAP50  mAP50-95): 31% 4/13 [00:05<00:13, 1.46s/it]libp
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
Class      Images  Instances  Box(P      R      mAP50  mAP50-95): 38% 5/13 [00:06<00:10, 1.32s/it]libp
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
Class      Images  Instances  Box(P      R      mAP50  mAP50-95): 54% 7/13 [00:08<00:05, 1.01it/s]libp
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
Class      Images  Instances  Box(P      R      mAP50  mAP50-95): 100% 13/13 [00:10<00:00, 1.20it/s]
all        408      459      0.856      0.833  0.873  0.574
Boar        408      26      0.955      0.822  0.904  0.62
Cheetah     408      41      0.876      0.876  0.97  0.601
Deer        408      51      0.841      0.726  0.765  0.396
Elephant    408      56      0.825      0.768  0.751  0.271
Hyena       408      39      0.921      0.897  0.944  0.676
Jaguar      408      30      0.749      0.9  0.897  0.756
Leopard     408      40      0.82      0.8  0.838  0.596
Lion        408      43      0.831      0.93  0.94  0.642
Panda       408      27      0.754      0.889  0.93  0.564
Snake       408      30      0.709      0.568  0.616  0.307
Tiger       408      33      0.967      0.888  0.961  0.74
Wolf        408      43      0.899      0.93  0.96  0.724
Speed: 1.1ms preprocess, 3.2ms inference, 0.0ms loss, 4.1ms postprocess per image
Results saved to runs/detect/train3

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