

Pre-trained yolo v5-v8 model on VisDrone dataset?

#1255

hellonun started this conversation in **General**



hellonun on Mar 3, 2023

edited ▾

Is there a pre-trained yolov5 or yolov8 model on VisDrone dataset I can find anywhere?

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AyushExel on Mar 3, 2023

Currently, we only have coco pre-trained models But we might offer more pre-trained models in the future

↑ 1



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Category

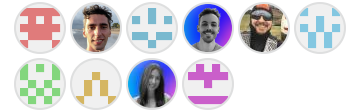


General

Labels

None yet

10 participants



glenn-jocher on Mar 5, 2023

Maintainer

@hellonun you can train VisDrone easily yourself:

```
yolo train model=yolov8n.pt data=VisDrone.yaml
```



↑ 1



7 replies



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abhinav70291 on Apr 23, 2023

I think the best way is to stop training when the mAP score reaches saturation. I think that u can set a threshold for early stopping rounds to around 50 epochs and take the best configuration from it.

Also, u might want to change some input hyperparameters and try to train the model again and see if the score gets any better.

Personally, I haven't found a solid criteria to know when to stop. For the visdrone dataset, it took me a little more than 150 epochs (probably less than 200) with image size set to 720 and augmentations being turned on. Try using the cosine scheduler and increasing warmup epochs.



darwintk on May 6, 2023

@abhinav70291 hi~ my visdrone dataset model also got low mAP50 and mAP50-95, would you mind sharing your yolov8 hyper parameters?



1nyourlife on May 31, 2023

Hi, sorry to bother but my found this error in my output:

FileNotFoundError: train: No labels found in
/home/zl481/PycharmProjects/pythonProject1/datasets/VisDrone/VisDrone2019-DET-train/labels.cache.

I have follow the tutorial and think the location of the dataset is correct, but still can not training,



pderrenger on Feb 6, 2024 Maintainer

@1nyourlife it appears that your dataset labels are not correctly located or formatted. Ensure that your labels are in the expected directory and that they are in the correct format. If you're using a custom dataset, you should have a `labels` folder alongside your `images` folder, with one text file for each image, containing the annotations.

If you're certain the labels are correctly placed, try clearing any cache files like `labels.cache` and re-running the training command. The dataset will be re-scanned, and a new cache will be created. If the issue persists, double-check your dataset configuration file (YAML) to ensure the paths are correctly specified.

Write a reply



yrik on Jun 6, 2023

You can find pre-trained VisDrone models here

<https://huggingface.co/mshamrai/yolov8n-visdrone>

↑ 2



👍 4

1 reply



pderrenger on Feb 6, 2024

Maintainer

edited by glenn-jocher ▾

@yrik i'm glad to see the community sharing models trained on various datasets! However I should clarify that the official pre-trained models we provide are typically trained on widely-used datasets such as COCO. For specialized datasets like VisDrone, we rely on the community to train and share their models.

If you're interested in training a YOLOv8 model on the VisDrone dataset yourself, you can follow our training guide in the Ultralytics Docs. This will involve setting up your dataset in the correct format, adjusting the training configuration, and then using the training command to train your model. If you need any assistance during the process, feel free to raise an issue in the repo, and we'll be happy to help! 😊🚀



Write a reply



agoncharenko1992 on Nov 10, 2023

Hi there!

Here you can find a little bit better solutions for VisDrone dataset:

https://huggingface.co/ENOT-AutoDL/yolov8s_visdrone

(+8% against Ultralytics baseline cfg.)

↑ 2



🚀 4

1 reply



pderrenger on Feb 6, 2024

Maintainer

@agoncharenko1992 thank you for your interest in the YOLO models! 🚀

instructions in our documentation. You would need to prepare the VisDrone dataset in the required format and then use the training command with the appropriate dataset configuration.

For detailed guidance on how to train a YOLOv8 model on a custom dataset, please refer to our training documentation at [Train](#). If you have any further questions or need assistance, feel free to raise an issue in the repo, and we'll be happy to help! Happy coding! 🤖 💻



Write a reply