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First sweep report

Here is a report from the first sweep.

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The data used is the SN-BAS SoccerNet data. The difference from the best to the worst performing run is ~0.03 mAP. It is not a big difference, but it is not insignificant. Weight decay has a correlation = -0.259 and learning rate has correlation = 0.251. Strong correlation is achieved at ~0.7. So the parameters here are not highly influential.

In the next sweep, **batch size** will be set to **2** because it does not appear to be influential.

Drop-path is a little more difficult, because it seems the extreme values {**~0.18, ~<0.03**} perform better than the values in the middle.

From the parameter correlation **weight decay** will have a low value (**<0.04**) because visually that is where it performs best.

Learning rate visually seems to have the opposite features of drop_path, that its more average values (~**0.0001**) perform best.

Below lies the .yaml configuration used and the charts.

Section 1

entity: jofalck-ntnu

project: video-mamba-suite

program: train_eval.py

method: bayes

metric:

  name: validation/mAP

  goal: maximize

```
command:

  - python

  - train_eval.py

  - configs/mamba_custom.yaml

  - --wandb

  - --wandb_project

  - video-mamba-suite

  - --wandb_entity

  - jofalck-ntnu


parameters:

 opt.learning_rate:

   distribution: uniform

   min: 5e-5

   max: 2e-4


 opt.weight_decay:

   distribution: uniform

   min: 0.01

   max: 0.1


 loader.batch_size:

   distribution: categorical

   values: [1, 2, 4]


 train_cfg.droppath:

   distribution: uniform
```
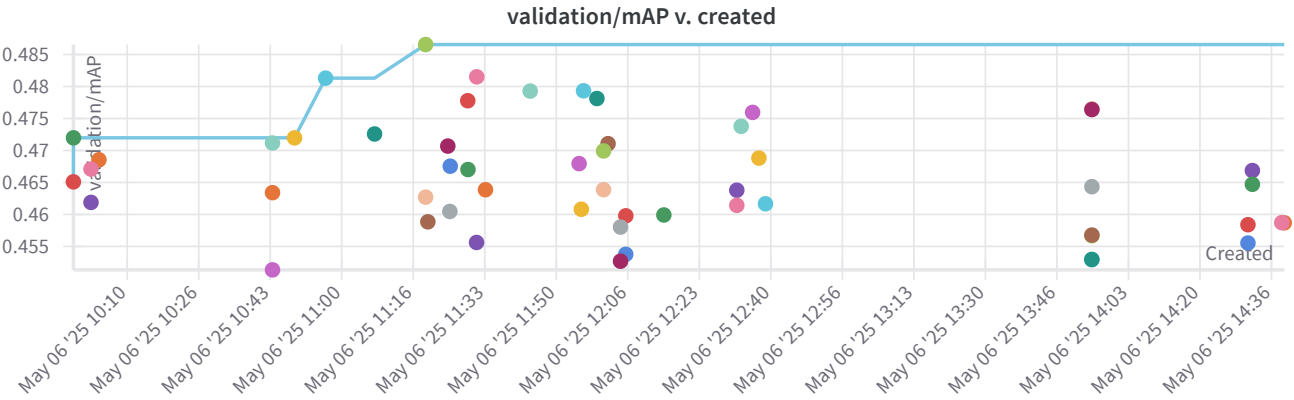
min: 0.0

max: 0.2

validation/mAP v. created

Parameter importance with respect to | ill | validation/mAP | ∨

| Q Search | | | ⊞≡ Parameters | ⚒ | 1-4 ▾ of 4 | ‹ › |

Config parameter	Importance ⓘ ↓	Correlation
train_cfg.droppath		
opt.weight_decay		
opt.learning_rate		
loader.batch_size		
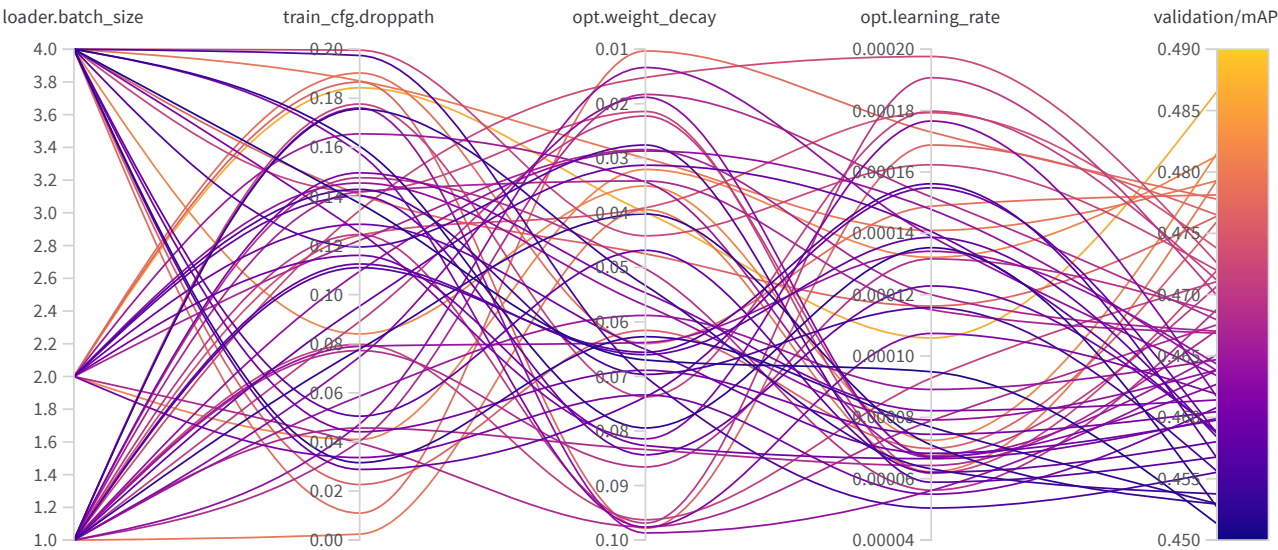
Created with ❤️ on Weights & Biases.

https://wandb.ai/jofalck-ntnu/video-mamba-suite/reports/First-sweep-report--VmlldzoxMjYzNjgwOA