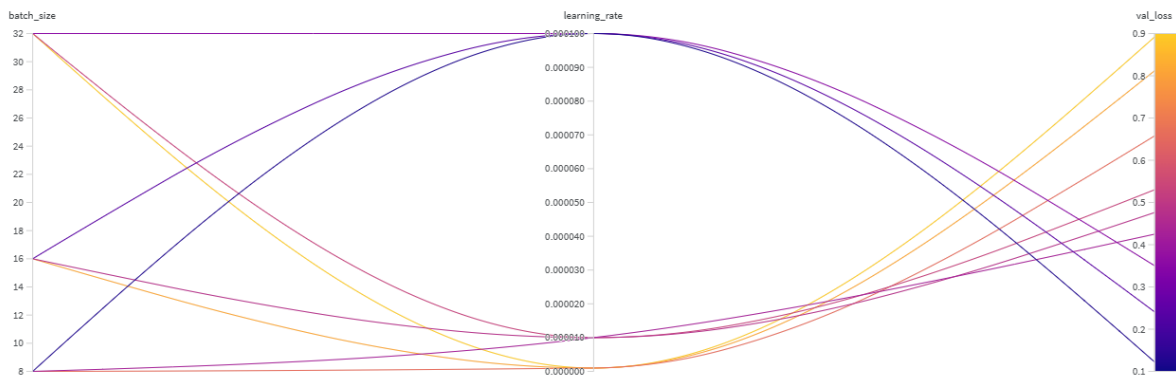# Forest Fire Prediction - Assignment 04
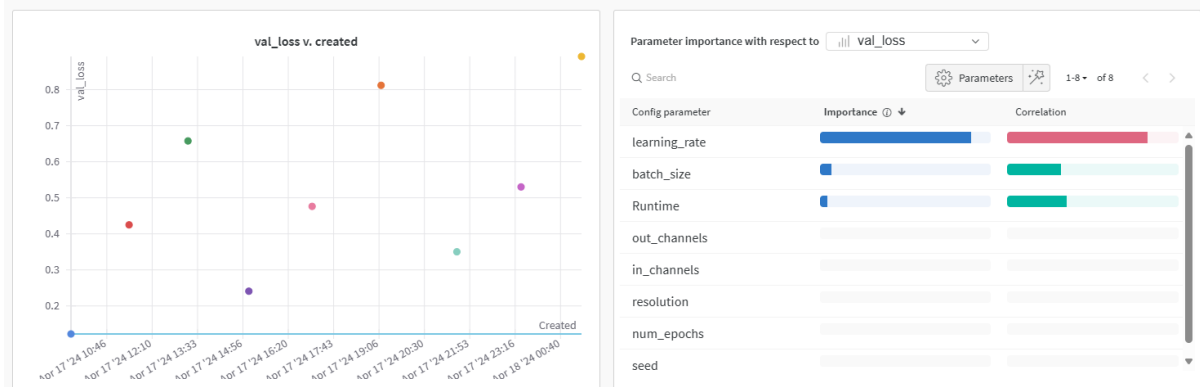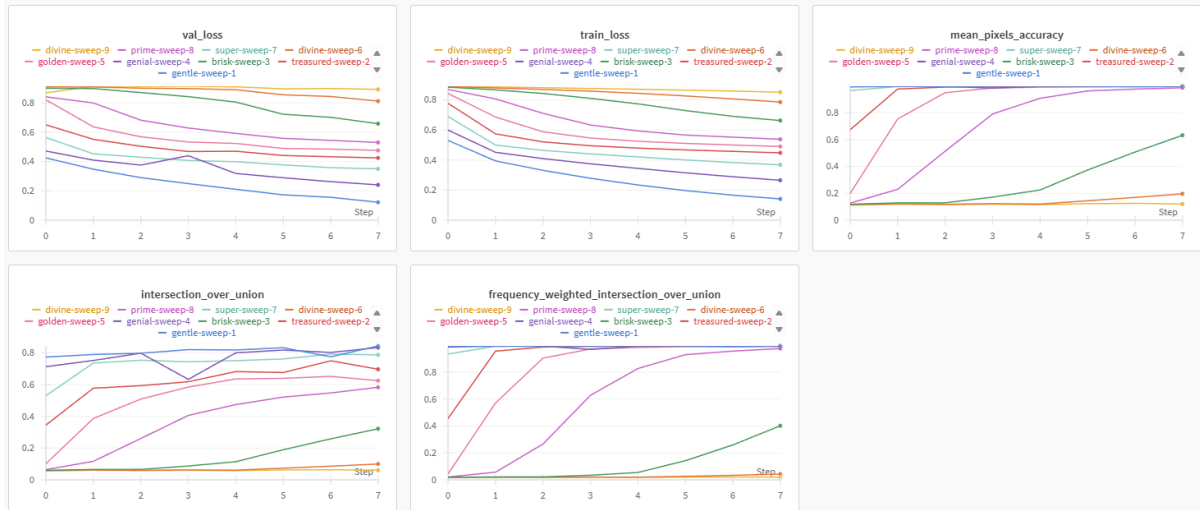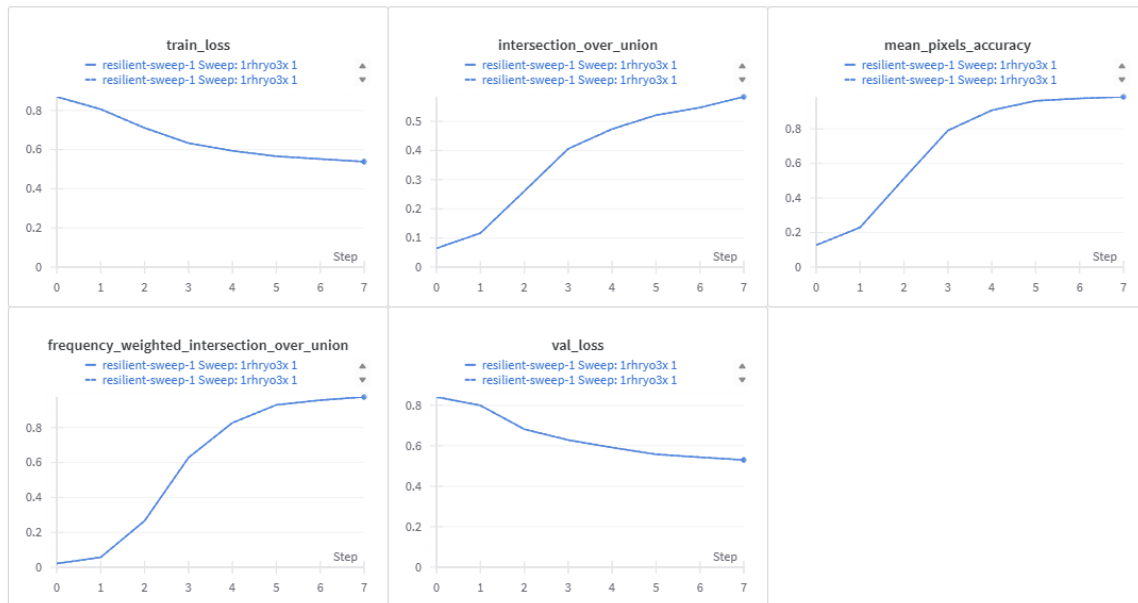
Experiments 2

Experiments 1 (to compare the plots)

Observations

Both experiments ran in 8 epochs, resolution 128x128, what differed between the experiments was the batch size and the learning rate. The best ran of the ones in Experiment 2 was the one with batch size 8 and learning rate 1e-3 (when increasing the batch size or lowering the learning rate, the performance was worse). At experiment 1 we did only 1 run, the differences were the batch size (32 old -> 8 new) and the learning rate (1e-5 old -> 1e-3 new).

All the metrics improved. Here's a table to see the differences.

Experiment	Train Loss	IoU	MPA	fwIoU	Val Loss
1	0.5383	0.5843	0.9861	0.9758	0.5301
2	**0.1415**	**0.8436**	**0.9974**	**0.9952**	**0.1222**

Links

Project: https://github.com/razvan404/forest-fire-detection

Experiments: https://api.wandb.ai/links/rasvan/79tt24hc