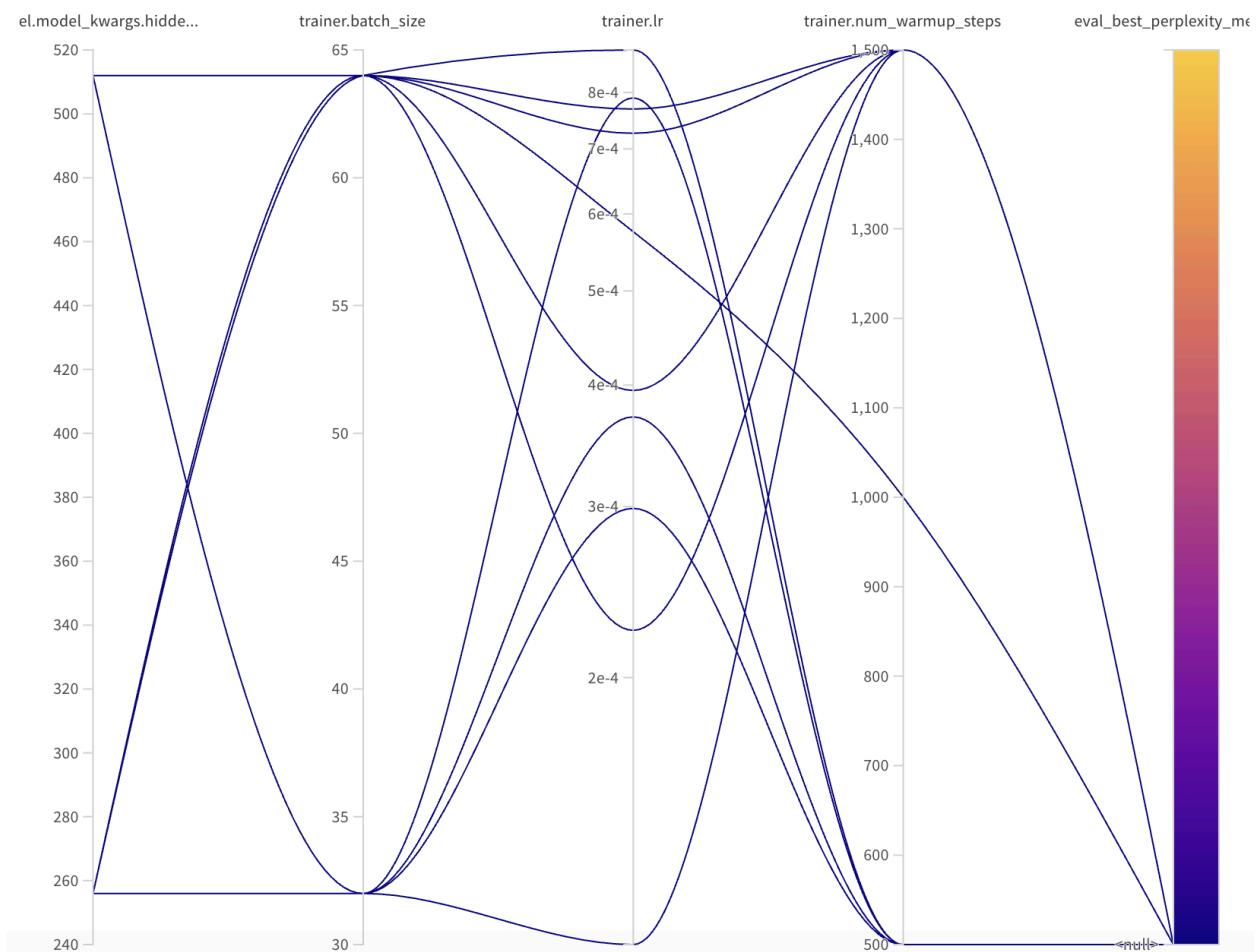
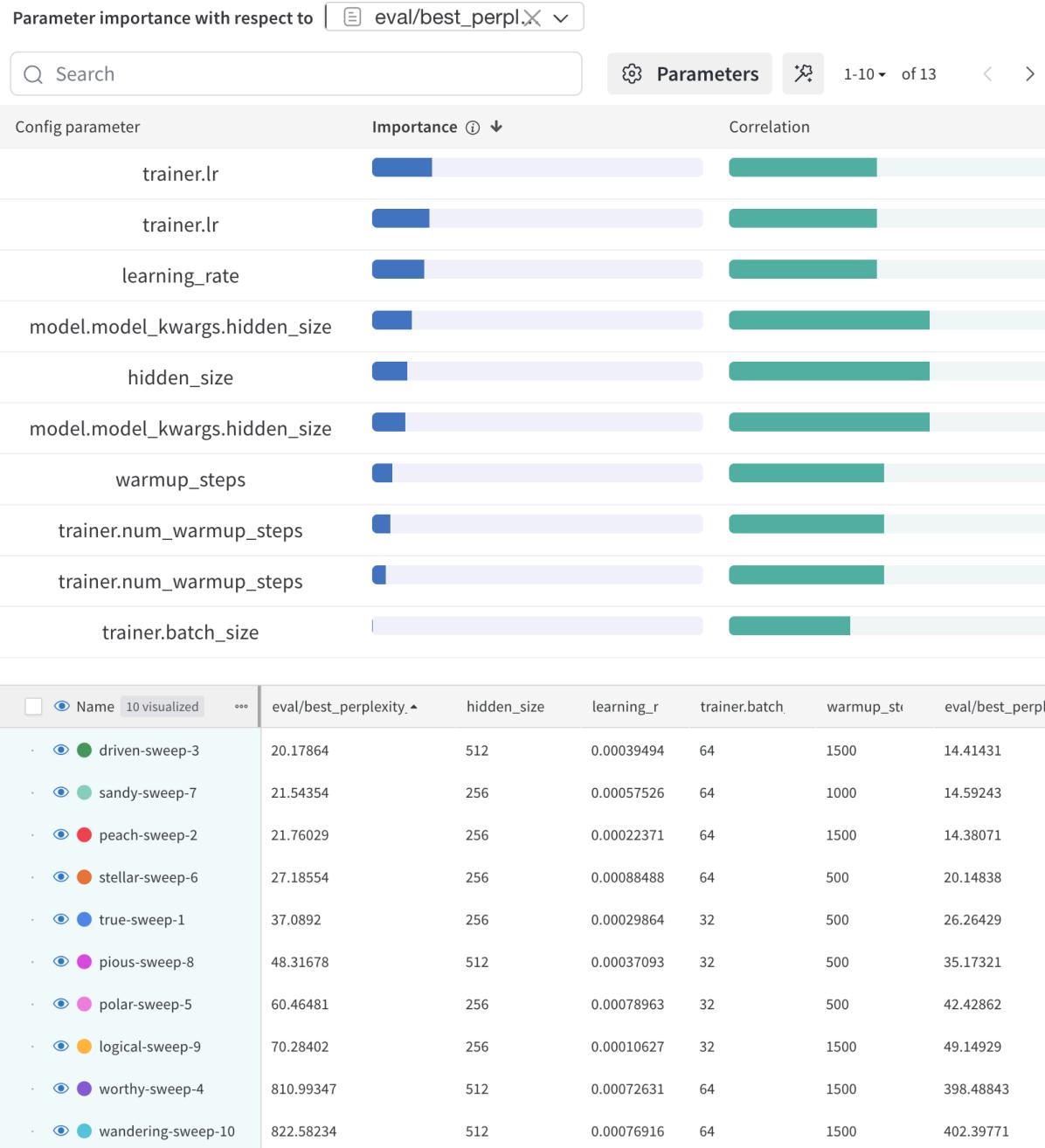


We ran a hyperparameter sweep with 10 experiments trying to find out what's the most optimal hyperparameter configuration for minimizing perplexity. We used bayesian sweep as our sweep method and tested these configurations:

- **trainer.lr** - min: 1e-4 to max:1e-3
- **trainer.num_warmup_steps**: values: [500, 1000, 1500]
- **trainer.batch_size**: values: [32,64]
- **model_kwargs.hidden_size**: values: [256,512]

After logging everything into wandb, Here are some visualization/data for the sweep.





Based on these 10 experiment runs, the most optimal hyperparameter we found for minimizing perplexity are:

- **learning_rate**: 0.00039494
- **batch_size**: 64
- **warmup_step**: 1500
- **hidden_size**: 512