

Deep Learning Exercise 5 Report

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1 Hyperparameter Optimization

Installing RoBO proved to be an almost impossible task and took many hours to complete. Anyway, here are my results: Right at the beginning, the chance

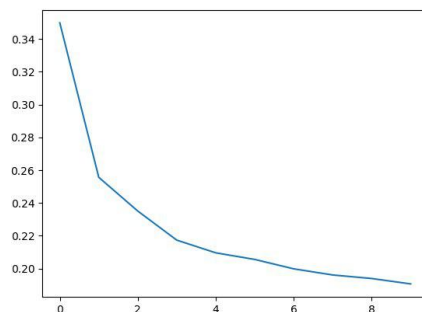


Figure 1: Average incumbent development when using random search

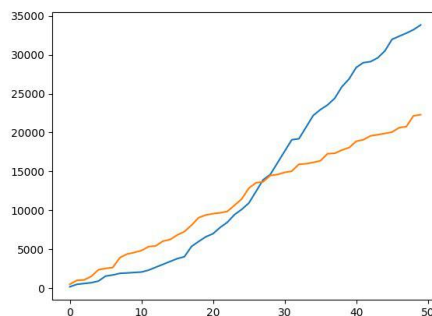


Figure 2: Runtimes of random search (yellow) and Bayes optimization (blue)

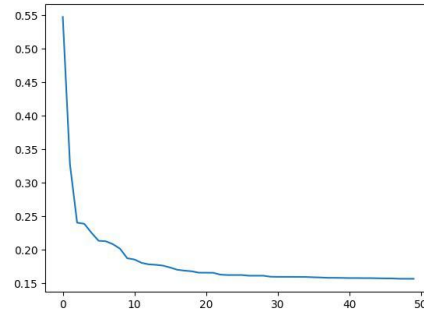


Figure 3: Average incumbent development when using bayes optimization

for random search to perform decently is pretty high, but also it just gets better at random moments. Bayes optimization however might not start as well, but actually has some strategy of improving the optimization function and therefore gets better after a while, where the statistic chance of random search improving is just overtaken.