

Momentum ↴	Rate ↴	InitialLearn-	SectionDepth	BestSoFar	Objective	Eval Iter
0.86293 ↴	0.36811	0.806	97.178	0.806	0.806	Best 1
0.85301 ↴	0.84545	0.794	13.482	0.794	0.794	Best 2
0.84914 ↴	0.016078	0.016	94.767	0.016	0.016	Best 3
0.92537 ↴	0.058496	0.016	141.33	0.016	0.016	Accept 4
0.86274 ↴	0.010078	0.016	140.68	0.016	0.016	Accept 5
0.84688 ↴	0.01441	0.006	96.198	0.006	0.006	Best 6
0.82991 ↴	0.012506	0.006	94.619	0.006	0.006	Accept 7
0.93984 ↴	0.013213	0.006	98.871	0.006	0.006	Accept 8
0.80005 ↴	0.031556	0.006	139.17	0.006	0.006	Accept 9
0.84553 ↴	0.013248	0.006	141.24	0.006	0.006	Accept 10
0.84017 ↴	0.010002	0.006	137.96	0.006	0.006	Accept 11
0.84818 ↴	0.012925	0.006	96.521	0.006	0.006	Accept 12
0.80122 ↴	0.010029	0.006	138.9	0.006	0.006	Accept 13
0.8837e-08	0.0095322	0.006	5.8837e-08	0.006	0.006	Accept 14

Warning: Training stopped at iteration 469 because training loss is NaN. Predictions using the output network might contain NaN values.

```

| 14 | Accept | 0.794 | 170.34 | 0.006 | 0.0067073 | 3 | 0.02157 | 0.84805 ↴
| 0.0051375 |
| 15 | Accept | 0.794 | 138.33 | 0.006 | 0.0060676 | 2 | 0.011083 | 0.82951 ↴
| 0.0035276 |

Warning: Training stopped at iteration 282 because training loss is NaN. Predictions using the output network might ↴
contain NaN values.

| 16 | Accept | 1 | 9.4529 | 0.006 | 0.0059815 | 3 | 0.99161 | 0.85951 ↴
| 1.1149e-06 |
| 1.8037e-07 |

Warning: Training stopped at iteration 242 because training loss is NaN. Predictions using the output network might ↴
contain NaN values.

| 17 | Accept | 0.794 | 7.3293 | 0.006 | 0.0059342 | 2 | 0.9965 | 0.86066 ↴
| 1.8037e-07 |

Warning: Training stopped at iteration 278 because training loss is NaN. Predictions using the output network might ↴
contain NaN values.

| 18 | Accept | 0.806 | 6.7276 | 0.006 | 0.0060625 | 1 | 0.99769 | 0.8275 ↴
| 0.00027745 |
| 19 | Accept | 0.014 | 92.695 | 0.006 | 0.0060814 | 1 | 0.014618 | 0.91487 ↴
| 0.00033395 |

Warning: Training stopped at iteration 206 because training loss is NaN. Predictions using the output network might ↴
contain NaN values.

| 20 | Accept | 0.816 | 6.7262 | 0.006 | 0.0060753 | 2 | 0.99011 | 0.97288 ↴
| 0.0060773 |
| ====== |
| Iter | Eval | Objective | BestSoFar | SectionDepth | InitialLearn-| Momentum ↴
| L2Regulariza-|
| | result | runtime | (observed) | (estim.) | | Rate | ↴
| | tion | | | | | |
| ====== |
| 21 | Accept | 0.012 | 96.094 | 0.006 | 0.0060685 | 1 | 0.010187 | 0.84456 ↴
| 3.3872e-06 |
| 22 | Accept | 0.022 | 92.983 | 0.006 | 0.0060644 | 1 | 0.010788 | 0.80226 ↴
| 6.7653e-10 |

Warning: Training stopped at iteration 220 because training loss is NaN. Predictions using the output network might ↴
contain NaN values.

```

	23		Accept		0.786		7.2231		0.006		0.0060581		2		0.97955		0.9798 ↴
	1.7591e-10												1		0.01062		0.90335 ↴
	24		Accept		0.012		93.634		0.006		0.0061144		1				
	1.5566e-05																
	25		Accept		0.018		94.332		0.006		0.0061229		1		0.010352		0.92587 ↴
	1.4865e-06																
	26		Accept		0.016		93.608		0.006		0.0061282		1		0.022654		0.88991 ↴
	5.5639e-06																
	27		Accept		0.016		94.791		0.006		0.0061594		1		0.012332		0.80241 ↴
	1.3425e-10																
	28		Accept		0.022		94.088		0.006		0.006224		1		0.01344		0.97904 ↴
	7.4136e-06																
	29		Accept		0.012		93.626		0.006		0.0061153		1		0.010501		0.91274 ↴
	0.00071221																
	30		Accept		0.006		93.195		0.006		0.0061305		1		0.012868		0.8723 ↴
	0.000463																

Optimization completed.

MaxObjectiveEvaluations of 30 reached.

Total function evaluations: 30

Total elapsed time: 2722.6491 seconds

Total objective function evaluation time: 2716.1069

Best observed feasible point:

SectionDepth	InitialLearnRate	Momentum	L2Regularization
1	0.01441	0.84688	0.00014148

Observed objective function value = 0.006

Estimated objective function value = 0.0061305

Function evaluation time = 96.1976

Best estimated feasible point (according to models):

SectionDepth	InitialLearnRate	Momentum	L2Regularization

```
1           0.01441          0.84688          0.00014148
```

```
Estimated objective function value = 0.0061305
Estimated function evaluation time = 95.2158
```

```
acc_25dB =
```

```
0.9856
```

```
acc_20dB =
```

```
0.9266
```

```
acc_15dB =
```

```
0.7658
```

```
acc_10dB =
```

```
0.5212
```

```
>>
```