Batch\_size = 64

Patience = 5

5\_\_\_\_\_Next configuration:\_\_\_\_\_\_

Stopping early at epoch 415!

Best test loss: 3173.951660

2\_\_\_\_\_Next configuration:\_\_\_\_\_\_

Stopping early at epoch 581!

Best test loss: 30011.267578

3\_\_\_\_\_Next configuration:\_\_\_\_\_\_

Stopping early at epoch 641!

Best test loss: 142375.651786

4\_\_\_\_\_Next configuration:\_\_\_\_\_\_

Stopping early at epoch 428!

Best test loss: 191534.120717

7\_\_\_\_\_Next configuration:\_\_\_\_\_\_

Stopping early at epoch 282!

Best test loss: 403828.647683

6\_\_\_\_\_Next configuration:\_\_\_\_\_\_

Stopping early at epoch 290!

Best test loss: 672846.250000

1\_\_\_\_\_Next configuration:\_\_\_\_\_\_

Stopping early at epoch 740!

Best test loss: 1336568.250000

Patience = 30

\_\_\_\_\_Configuration 0:\_\_\_\_\_\_

learning\_rate=0.0001, num\_hidden=3, size\_hidden=32, weight\_decay=0, optimizer=Adam

Best test loss after epoch 950: 5727.539548895994

\_\_\_\_\_Configuration 0:\_\_\_\_\_\_

learning\_rate=0.0001, num\_hidden=3, size\_hidden=32, weight\_decay=0, optimizer=Adam

Best test loss after epoch 801: 33285.0390625

\_\_\_\_\_Configuration 1:\_\_\_\_\_\_

learning\_rate=0.0001, num\_hidden=3, size\_hidden=32, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 696: 5057.1025390625

\_\_\_\_\_Configuration 2:\_\_\_\_\_\_

learning\_rate=0.0001, num\_hidden=3, size\_hidden=64, weight\_decay=0, optimizer=Adam

aaBest test loss after epoch 677: 3705.4664122828185

\_\_\_\_\_Configuration 3:\_\_\_\_\_\_

learning\_rate=0.0001, num\_hidden=3, size\_hidden=64, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 446: 57695.47117820946

\_\_\_\_\_Configuration 4:\_\_\_\_\_\_

learning\_rate=0.0001, num\_hidden=4, size\_hidden=32, weight\_decay=0, optimizer=Adam

Best test loss after epoch 473: 8555.4814453125

\_\_\_\_\_Configuration 5:\_\_\_\_\_\_

learning\_rate=0.0001, num\_hidden=4, size\_hidden=32, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 422: 564.567870858093

\_\_\_\_\_Configuration 6:\_\_\_\_\_\_

learning\_rate=0.0001, num\_hidden=4, size\_hidden=64, weight\_decay=0, optimizer=Adam

Best test loss after epoch 353: 52505.005037403476

\_\_\_\_\_Configuration 7:\_\_\_\_\_\_

learning\_rate=0.0001, num\_hidden=4, size\_hidden=64, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 283: 528888.3088803089

\_\_\_\_\_Configuration 8:\_\_\_\_\_\_

learning\_rate=0.0001, num\_hidden=5, size\_hidden=32, weight\_decay=0, optimizer=Adam

Best test loss after epoch 579: 45598.4786438224

\_\_\_\_\_Configuration 8:\_\_\_\_\_\_

learning\_rate=0.0001, num\_hidden=5, size\_hidden=32, weight\_decay=0, optimizer=Adam

Best test loss after epoch 338: 150938.359375

\_\_\_\_\_Configuration 0:\_\_\_\_\_\_

learning\_rate=1e-05, num\_hidden=3, size\_hidden=32, weight\_decay=0, optimizer=Adam

Best test loss after epoch 999: 4092631808.0

\_\_\_\_\_Configuration 1:\_\_\_\_\_\_

learning\_rate=1e-05, num\_hidden=3, size\_hidden=32, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 999: 2362809600.0

\_\_\_\_\_Configuration 2:\_\_\_\_\_\_

learning\_rate=1e-05, num\_hidden=3, size\_hidden=64, weight\_decay=0, optimizer=Adam

Best test loss after epoch 999: 2265395456.0

\_\_\_\_\_Configuration 3:\_\_\_\_\_\_

learning\_rate=1e-05, num\_hidden=3, size\_hidden=64, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 999: 965766912.2471043

\_\_\_\_\_Configuration 4:\_\_\_\_\_\_

learning\_rate=1e-05, num\_hidden=4, size\_hidden=32, weight\_decay=0, optimizer=Adam

Best test loss after epoch 999: 1164601472.0

\_\_\_\_\_Configuration 5:\_\_\_\_\_\_

learning\_rate=1e-05, num\_hidden=4, size\_hidden=32, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 999: 219327584.0

\_\_\_\_\_Configuration 6:\_\_\_\_\_\_

learning\_rate=1e-05, num\_hidden=4, size\_hidden=64, weight\_decay=0, optimizer=Adam

Best test loss after epoch 999: 94251968.33976834

\_\_\_\_\_Configuration 7:\_\_\_\_\_\_

learning\_rate=1e-05, num\_hidden=4, size\_hidden=64, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 999: 26940.151069317086

\_\_\_\_\_Configuration 8:\_\_\_\_\_\_

learning\_rate=1e-05, num\_hidden=5, size\_hidden=32, weight\_decay=0, optimizer=Adam

Best test loss after epoch 999: 78733688.0

\_\_\_\_\_Configuration 9:\_\_\_\_\_\_

learning\_rate=1e-05, num\_hidden=5, size\_hidden=32, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 970: 5411.25439453125

\_\_\_\_\_Configuration 10:\_\_\_\_\_\_

learning\_rate=1e-05, num\_hidden=5, size\_hidden=64, weight\_decay=0, optimizer=Adam

Best test loss after epoch 790: 5349.919197936776

\_\_\_\_\_Configuration 11:\_\_\_\_\_\_

learning\_rate=1e-05, num\_hidden=5, size\_hidden=64, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 639: 18406.44268822394

\_\_\_\_\_Configuration 12:\_\_\_\_\_\_

learning\_rate=0.001, num\_hidden=3, size\_hidden=32, weight\_decay=0, optimizer=Adam

Best test loss after epoch 243: 527119.8125

\_\_\_\_\_Configuration 13:\_\_\_\_\_\_

learning\_rate=0.001, num\_hidden=3, size\_hidden=32, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 600: 38747.66796875

\_\_\_\_\_Configuration 14:\_\_\_\_\_\_

learning\_rate=0.001, num\_hidden=3, size\_hidden=64, weight\_decay=0, optimizer=Adam

Best test loss after epoch 249: 111681.6829753861

\_\_\_\_\_Configuration 15:\_\_\_\_\_\_

learning\_rate=0.001, num\_hidden=3, size\_hidden=64, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 493: 95555.92347369691

\_\_\_\_\_Configuration 16:\_\_\_\_\_\_

learning\_rate=0.001, num\_hidden=4, size\_hidden=32, weight\_decay=0, optimizer=Adam

Best test loss after epoch 503: 71023.15625

\_\_\_\_\_Configuration 17:\_\_\_\_\_\_

learning\_rate=0.001, num\_hidden=4, size\_hidden=32, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 449: 149084.90625

\_\_\_\_\_Configuration 18:\_\_\_\_\_\_

learning\_rate=0.001, num\_hidden=4, size\_hidden=64, weight\_decay=0, optimizer=Adam

Best test loss after epoch 469: 109901.7742519305

\_\_\_\_\_Configuration 19:\_\_\_\_\_\_

learning\_rate=0.001, num\_hidden=4, size\_hidden=64, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 449: 53158.32283120174

\_\_\_\_\_Configuration 20:\_\_\_\_\_\_

learning\_rate=0.001, num\_hidden=5, size\_hidden=32, weight\_decay=0, optimizer=Adam

Best test loss after epoch 524: 35694.06640625

\_\_\_\_\_Configuration 21:\_\_\_\_\_\_

learning\_rate=0.001, num\_hidden=5, size\_hidden=32, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 402: 69274.2734375

\_\_\_\_\_Configuration 22:\_\_\_\_\_\_

learning\_rate=0.001, num\_hidden=5, size\_hidden=64, weight\_decay=0, optimizer=Adam

Best test loss after epoch 427: 101998.15603885135

\_\_\_\_\_Configuration 23:\_\_\_\_\_\_

learning\_rate=0.001, num\_hidden=5, size\_hidden=64, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 405: 28490.559408180503

\_\_\_\_\_Configuration 24:\_\_\_\_\_\_

learning\_rate=0.01, num\_hidden=3, size\_hidden=32, weight\_decay=0, optimizer=Adam

Best test loss after epoch 435: 68121.578125

\_\_\_\_\_Configuration 25:\_\_\_\_\_\_

learning\_rate=0.01, num\_hidden=3, size\_hidden=32, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 453: 30029.5546875

\_\_\_\_\_Configuration 26:\_\_\_\_\_\_

learning\_rate=0.01, num\_hidden=3, size\_hidden=64, weight\_decay=0, optimizer=Adam

Best test loss after epoch 424: 28838.89274402751

\_\_\_\_\_Configuration 27:\_\_\_\_\_\_

learning\_rate=0.01, num\_hidden=3, size\_hidden=64, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 208: 1511755.3754826256

\_\_\_\_\_Configuration 28:\_\_\_\_\_\_

learning\_rate=0.01, num\_hidden=4, size\_hidden=32, weight\_decay=0, optimizer=Adam

Best test loss after epoch 235: 1447610.625

\_\_\_\_\_Configuration 29:\_\_\_\_\_\_

learning\_rate=0.01, num\_hidden=4, size\_hidden=32, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 210: 1180353.25

\_\_\_\_\_Configuration 30:\_\_\_\_\_\_

learning\_rate=0.01, num\_hidden=4, size\_hidden=64, weight\_decay=0, optimizer=Adam

Best test loss after epoch 383: 6371.851336269305

\_\_\_\_\_Configuration 31:\_\_\_\_\_\_

learning\_rate=0.01, num\_hidden=4, size\_hidden=64, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 220: 727403.5002413128

\_\_\_\_\_Configuration 32:\_\_\_\_\_\_

learning\_rate=0.01, num\_hidden=5, size\_hidden=32, weight\_decay=0, optimizer=Adam

Best test loss after epoch 285: 101332.390625

\_\_\_\_\_Configuration 33:\_\_\_\_\_\_

learning\_rate=0.01, num\_hidden=5, size\_hidden=32, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 306: 2668.30810546875

\_\_\_\_\_Configuration 34:\_\_\_\_\_\_

learning\_rate=0.01, num\_hidden=5, size\_hidden=64, weight\_decay=0, optimizer=Adam

Best test loss after epoch 221: 749149.625

\_\_\_\_\_Configuration 35:\_\_\_\_\_\_

learning\_rate=0.01, num\_hidden=5, size\_hidden=64, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 213: 12.775102630085007

Batch size = 128

\_\_\_\_\_Configuration 0:\_\_\_\_\_\_

learning\_rate=0.001, num\_hidden=3, size\_hidden=32, weight\_decay=0, optimizer=Adam

Best test loss after epoch 469: 400302.6875

\_\_\_\_\_Configuration 1:\_\_\_\_\_\_

learning\_rate=0.001, num\_hidden=3, size\_hidden=32, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 481: 458849.34375

\_\_\_\_\_Configuration 2:\_\_\_\_\_\_

learning\_rate=0.001, num\_hidden=3, size\_hidden=64, weight\_decay=0, optimizer=Adam

Best test loss after epoch 437: 185972.61947115386

\_\_\_\_\_Configuration 3:\_\_\_\_\_\_

learning\_rate=0.001, num\_hidden=3, size\_hidden=64, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 891: 119682.42193509615

\_\_\_\_\_Configuration 4:\_\_\_\_\_\_

learning\_rate=0.001, num\_hidden=4, size\_hidden=32, weight\_decay=0, optimizer=Adam

Best test loss after epoch 605: 519595.8439903846

\_\_\_\_\_Configuration 5:\_\_\_\_\_\_

learning\_rate=0.001, num\_hidden=4, size\_hidden=32, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 808: 135549.4375

\_\_\_\_\_Configuration 6:\_\_\_\_\_\_

learning\_rate=0.001, num\_hidden=4, size\_hidden=64, weight\_decay=0, optimizer=Adam

Best test loss after epoch 714: 310027.4430288462

\_\_\_\_\_Configuration 7:\_\_\_\_\_\_

learning\_rate=0.001, num\_hidden=4, size\_hidden=64, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 581: 575072.5168269231

\_\_\_\_\_Configuration 8:\_\_\_\_\_\_

learning\_rate=0.001, num\_hidden=5, size\_hidden=32, weight\_decay=0, optimizer=Adam

Best test loss after epoch 654: 434966.25

\_\_\_\_\_Configuration 9:\_\_\_\_\_\_

learning\_rate=0.001, num\_hidden=5, size\_hidden=32, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 556: 867383.5

\_\_\_\_\_Configuration 10:\_\_\_\_\_\_

learning\_rate=0.001, num\_hidden=5, size\_hidden=64, weight\_decay=0, optimizer=Adam

Best test loss after epoch 503: 1192616.0067307693

\_\_\_\_\_Configuration 11:\_\_\_\_\_\_

learning\_rate=0.001, num\_hidden=5, size\_hidden=64, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 514: 779044.3134615384

\_\_\_\_\_Configuration 12:\_\_\_\_\_\_

learning\_rate=0.01, num\_hidden=3, size\_hidden=32, weight\_decay=0, optimizer=Adam

Best test loss after epoch 559: 786710.75

\_\_\_\_\_Configuration 13:\_\_\_\_\_\_

learning\_rate=0.01, num\_hidden=3, size\_hidden=32, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 429: 1906105.5

\_\_\_\_\_Configuration 14:\_\_\_\_\_\_

learning\_rate=0.01, num\_hidden=3, size\_hidden=64, weight\_decay=0, optimizer=Adam

Best test loss after epoch 492: 940792.4375

\_\_\_\_\_Configuration 15:\_\_\_\_\_\_

learning\_rate=0.01, num\_hidden=3, size\_hidden=64, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 387: 1113982.7509615384

\_\_\_\_\_Configuration 16:\_\_\_\_\_\_

learning\_rate=0.01, num\_hidden=4, size\_hidden=32, weight\_decay=0, optimizer=Adam

Best test loss after epoch 402: 978782.4375

\_\_\_\_\_Configuration 17:\_\_\_\_\_\_

learning\_rate=0.01, num\_hidden=4, size\_hidden=32, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 242: 15637110.984615386

\_\_\_\_\_Configuration 18:\_\_\_\_\_\_

learning\_rate=0.01, num\_hidden=4, size\_hidden=64, weight\_decay=0, optimizer=Adam

Best test loss after epoch 251: 5984353.953846154

\_\_\_\_\_Configuration 19:\_\_\_\_\_\_

learning\_rate=0.01, num\_hidden=4, size\_hidden=64, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 227: 14364040.0

\_\_\_\_\_Configuration 20:\_\_\_\_\_\_

learning\_rate=0.01, num\_hidden=5, size\_hidden=32, weight\_decay=0, optimizer=Adam

Best test loss after epoch 330: 4771766.0

\_\_\_\_\_Configuration 21:\_\_\_\_\_\_

learning\_rate=0.01, num\_hidden=5, size\_hidden=32, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 244: 5522946.5

\_\_\_\_\_Configuration 22:\_\_\_\_\_\_

learning\_rate=0.01, num\_hidden=5, size\_hidden=64, weight\_decay=0, optimizer=Adam

Best test loss after epoch 215: 16681148.007692307

\_\_\_\_\_Configuration 23:\_\_\_\_\_\_

learning\_rate=0.01, num\_hidden=5, size\_hidden=64, weight\_decay=1e-05, optimizer=Adam

Best test loss after epoch 376: 3.131133859404564e-07

change of loss function from (2022-04-28-7-54)

loss\_rho += (rho\_true \* (torch.log(rho\_nn) - torch.log(rho\_true)) \*\* 2).mean()

to

loss\_rho += ((torch.log(rho\_nn) - torch.log(rho\_true)) \*\* 2).mean()