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Python 3.7.5 (default, Oct 31 2019, 15:18:51) [MSC v.1916 64 bit (AMD64)]
batch size: 128, epoch: 500, learning rate: 0.01, regularization strength: 0.0001, layers: 3, hidden_layer_units: 30
epoch:1 started
loss:1.044914968216649
epoch:2 started
loss:0.6131656330693845
epoch:3 started
loss:0.48610356779361763
epoch:4 started
loss:0.42735417992692054
epoch:5 started
loss:0.3930391352666218
epoch:6 started
loss:0.3700364590590979
epoch:7 started
loss:0.35312132358649373
epoch:8 started
loss:0.33993226708467694
epoch:9 started
loss:0.3292470824424274
epoch:10 started
loss:0.32020642206147537
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epoch:491 started
loss:0.11412134409548055
epoch:492 started
loss:0.11405965269877401
epoch:493 started
loss:0.11393398887220067
epoch:494 started
loss:0.11395988157872261
epoch:495 started
loss:0.11392856562385466
epoch:496 started
loss:0.11396809300825449
epoch:497 started
loss:0.11398772923968338
epoch:498 started
loss:0.11392652696094563
epoch:499 started
loss:0.11384207299545421
epoch:500 started
loss:0.11377252105110207
The prediction accuracy on test data is 96.87%
MSE on test data is 0.10515364268204612
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In[3]:
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The prediction accuracy on test data is 96.63%