test_Barin

March 9, 2022

[1]: import torch

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from torch.utils.data import DataLoader
      from thermoclassifier.dataset.test_data import TestData
      from thermoclassifier.elements.net import ElementClassifier
 [2]: seq_len = 5
      td = TestData()
      data = td(r'C:\Users\danie\Documents\Montanuni\Masterarbeit\4_
       →Daten\Barin\Excel', 'barin', seq_len, (200, 2000))
      test_loader = DataLoader(data, batch_size=1, shuffle=True)
 [3]: def test(net, test_loader):
          correct = 0
          incorrect = 0
          for d in test_loader:
              inp = d[:, :, :-1]
              inp[:, :, 0] /= 1000
              predictions = net(inp.float())
              targets = d[:, :, -1][:, 0].long()
              correct += (predictions.argmax(dim=-1) == targets).sum().item()
              incorrect += len(targets) - (predictions.argmax(dim=-1) == targets).
       →sum().item()
          accuracy = correct/(correct + incorrect)
          print('Test accuracy: ', accuracy)
          return accuracy
[16]: net = torch.load(r'C:\Users\danie\Documents\Montanuni\Masterarbeit\5_u
       → Programmcodes\packages\thermoclassifier\thermoclassifier\elements\models\ElementClassifier_
       →pth')
[17]: test(net, test_loader)
```

Test accuracy: 0.6459854014598541

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