test_Barin

March 9, 2022

[1]:
```
import torch
from torch.utils.data import DataLoader

from thermoclassifier.dataset.test_data import TestData
from thermoclassifier.elements.net import ElementClassifier
```

[31]:
```
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
```

[42]:
```
net = torch.load(r'C:\Users\danie\Documents\Montanuni\Masterarbeit\5␣
 ↪Programmcodes\packages\thermoclassifier\thermoclassifier\elements\models\ElementClassifier_
 ↪pth')
```

[43]:
```
test(net, test_loader)
```

```
Test accuracy:  0.6131386861313869
```

[43]:
```
0.6131386861313869
```

[ ]:
```

```