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/Users/christineschafer/Documents/Uni-Kram/Masterarbeit/Repos/
metaphor_in_political_speeches/venv/bin/python /Users/christineschafer/
Documents/Uni-Kram/Masterarbeit/Repos/metaphor_in_political_speeches/src/
mwe_metaphor/main.py
mps
MAX_LEN = 90
len of sents in mwe adj processing 6568
len(sentences)=252
max_len of tokenized texts: 105
/Users/christineschafer/Documents/Uni-Kram/Masterarbeit/Repos/
metaphor_in_political_speeches/venv/lib/python3.10/site-packages/transformers/
optimization.py:411: FutureWarning: This implementation of AdamW is deprecated
and will be removed in a future version. Use the PyTorch implementation
torch.optim.AdamW instead, or set `no_deprecation_warning=True` to disable this
warning
  warnings.warn(
fold number 1:
Epoch: 0%|          | 0/5 [00:00<?, ?it/s]Train loss: 0.691065422126225
Epoch: 20%|██        | 1/5 [00:18<01:13, 18.45s/it]Train loss: 0.6832945602280753
Epoch: 40%|████      | 2/5 [00:36<00:54, 18.05s/it]Train loss:
0.6715992263385228
Epoch: 60%|██████    | 3/5 [00:53<00:35, 17.87s/it]Train loss:
0.6321389589990888
Epoch: 80%|████████  | 4/5 [01:11<00:17, 17.78s/it]Train loss:
0.5166857583182198
Epoch: 100%|██████████| 5/5 [01:29<00:00, 17.85s/it]
scores.accuracy()=0.5769230769230769
scores.precision_recall_fscore()=(0.6477272727272727, 0.576923076923077,
0.5193277310924369)
fold number 2:
/Users/christineschafer/Documents/Uni-Kram/Masterarbeit/Repos/
metaphor_in_political_speeches/venv/lib/python3.10/site-packages/transformers/
optimization.py:411: FutureWarning: This implementation of AdamW is deprecated
and will be removed in a future version. Use the PyTorch implementation
torch.optim.AdamW instead, or set `no_deprecation_warning=True` to disable this
warning
  warnings.warn(
Epoch: 0%|          | 0/5 [00:00<?, ?it/s]Train loss: 0.6982930813516889
Epoch: 20%|██        | 1/5 [00:17<01:10, 17.74s/it]Train loss: 0.6922232764107841
Epoch: 40%|████      | 2/5 [00:35<00:53, 17.71s/it]Train loss:
0.6884386454309736
Epoch: 60%|██████    | 3/5 [00:52<00:35, 17.63s/it]Train loss:
0.635895162820816
Epoch: 80%|████████  | 4/5 [01:10<00:17, 17.64s/it]Train loss:
0.5569978675671986
scores.accuracy()=0.6538461538461539
scores.precision_recall_fscore()=(0.5833333333333333, 0.5261437908496732,
0.48115299334811523)
Epoch: 100%|██████████| 5/5 [01:28<00:00, 17.67s/it]
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```
warnings.warn(
Epoch: 0%|          | 0/5 [00:00<?, ?it/s]fold number 3:
Train loss: 0.6995511821338108
Epoch: 20%|██████    | 1/5 [00:17<01:10, 17.74s/it]Train loss: 0.6961665664400373
Epoch: 40%|██████████| 2/5 [00:35<00:52, 17.62s/it]Train loss:
0.6703674495220184
Epoch: 60%|███████████| 3/5 [00:52<00:35, 17.55s/it]Train loss:
0.6374642763819013
Epoch: 80%|██████████████| 4/5 [01:10<00:17, 17.50s/it]Train loss:
0.5367966251713889
Epoch: 100%|██████████████████| 5/5 [01:27<00:00, 17.53s/it]
scores.accuracy()=0.6
scores.precision_recall_fscore()=(0.5476190476190476, 0.5416666666666666,
0.5404411764705883)
```

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metaphor_in_political_speeches/venv/lib/python3.10/site-packages/transformers/optimization.py:411: FutureWarning: This implementation of AdamW is deprecated and will be removed in a future version. Use the PyTorch implementation torch.optim.AdamW instead, or set `no_deprecation_warning=True` to disable this warning

```
warnings.warn(
Epoch: 0%|          | 0/5 [00:00<?, ?it/s]fold number 4:
Train loss: 0.6936900658266885
Epoch: 20%|██████    | 1/5 [00:17<01:10, 17.52s/it]Train loss: 0.6793425125735146
Epoch: 40%|██████████| 2/5 [00:35<00:52, 17.55s/it]Train loss:
0.6805998938424247
Epoch: 60%|███████████| 3/5 [00:52<00:35, 17.55s/it]Train loss:
0.6291697238172803
Epoch: 80%|██████████████| 4/5 [01:10<00:17, 17.59s/it]Train loss:
0.5330813888992582
Epoch: 100%|██████████████████| 5/5 [01:27<00:00, 17.57s/it]
scores.accuracy()=0.56
scores.precision_recall_fscore()=(0.5608974358974359, 0.5608974358974359,
0.5599999999999999)
```

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metaphor_in_political_speeches/venv/lib/python3.10/site-packages/transformers/optimization.py:411: FutureWarning: This implementation of AdamW is deprecated and will be removed in a future version. Use the PyTorch implementation torch.optim.AdamW instead, or set `no_deprecation_warning=True` to disable this warning

```
warnings.warn(
Epoch: 0%|          | 0/5 [00:00<?, ?it/s]fold number 5:
Train loss: 0.6952024698257446
Epoch: 20%|██████    | 1/5 [00:17<01:09, 17.50s/it]Train loss: 0.683668430362429
Epoch: 40%|██████████| 2/5 [00:35<00:52, 17.55s/it]Train loss:
```

```
0.6694834572928292
Epoch: 60%|██████████| 3/5 [00:52<00:35, 17.52s/it]Train loss:
0.6269976539271218
Epoch: 80%|██████████| 4/5 [01:10<00:17, 17.56s/it]Train loss:
0.5141225840364184
scores.accuracy()=0.56
scores.precision_recall_fscore()=(0.6071428571428572, 0.5876623376623377,
0.548440065681445)
Epoch: 100%|██████████| 5/5 [01:27<00:00, 17.56s/it]
/Users/christineschafer/Documents/Uni-Kram/Masterarbeit/Repos/
metaphor_in_political_speeches/venv/lib/python3.10/site-packages/transformers/
optimization.py:411: FutureWarning: This implementation of AdamW is deprecated
and will be removed in a future version. Use the PyTorch implementation
torch.optim.AdamW instead, or set `no_deprecation_warning=True` to disable this
warning
  warnings.warn(
Epoch: 0%|          | 0/5 [00:00<?, ?it/s]fold number 6:
Train loss: 0.6974345658506665
Epoch: 20%|██████    | 1/5 [00:17<01:10, 17.53s/it]Train loss: 0.679659115416663
Epoch: 40%|██████████| 2/5 [00:35<00:52, 17.54s/it]Train loss:
0.6648770911352975
Epoch: 60%|██████████| 3/5 [00:52<00:35, 17.67s/it]Train loss:
0.5970729887485504
Epoch: 80%|██████████| 4/5 [01:10<00:17, 17.72s/it]Train loss:
0.3787108340433666
scores.accuracy()=0.48
scores.precision_recall_fscore()=(0.4891304347826087, 0.4967948717948718,
0.38095238095238093)
Epoch: 100%|██████████| 5/5 [01:31<00:00, 18.33s/it]
/Users/christineschafer/Documents/Uni-Kram/Masterarbeit/Repos/
metaphor_in_political_speeches/venv/lib/python3.10/site-packages/transformers/
optimization.py:411: FutureWarning: This implementation of AdamW is deprecated
and will be removed in a future version. Use the PyTorch implementation
torch.optim.AdamW instead, or set `no_deprecation_warning=True` to disable this
warning
  warnings.warn(
Epoch: 0%|          | 0/5 [00:00<?, ?it/s]fold number 7:
Train loss: 0.6896688001496452
Epoch: 20%|██████    | 1/5 [00:34<02:16, 34.24s/it]Train loss: 0.6825503919805799
Epoch: 40%|██████████| 2/5 [01:20<02:04, 41.33s/it]Train loss:
0.6560354062489101
Epoch: 60%|██████████| 3/5 [01:49<01:10, 35.48s/it]Train loss:
0.6229902165276664
Epoch: 80%|██████████| 4/5 [02:11<00:30, 30.31s/it]Train loss:
0.5197787774460656
scores.accuracy()=0.48
scores.precision_recall_fscore()=(0.48333333333333334, 0.48397435897435903,
0.4766505636070854)
Epoch: 100%|██████████| 5/5 [02:31<00:00, 30.24s/it]
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```
warnings.warn(
Epoch: 0%|          | 0/5 [00:00<?, ?it/s]fold number 8:
Train loss: 0.6977180668285915
Epoch: 20%|██████    | 1/5 [00:18<01:13, 18.38s/it]Train loss: 0.6768978365830013
Epoch: 40%|██████████| 2/5 [00:36<00:54, 18.18s/it]Train loss:
0.6542413532733917
Epoch: 60%|███████████| 3/5 [00:53<00:35, 17.90s/it]Train loss:
0.616683725799833
Epoch: 80%|██████████████| 4/5 [01:12<00:17, 17.96s/it]Train loss:
0.509246438741684
Epoch: 100%|██████████████████| 5/5 [01:31<00:00, 18.20s/it]
scores.accuracy()=0.6
scores.precision_recall_fscore()=(0.6145833333333333, 0.6057692307692308,
0.5941558441558442)
```

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```
warnings.warn(
Epoch: 0%|          | 0/5 [00:00<?, ?it/s]fold number 9:
Train loss: 0.693862476519176
Epoch: 20%|██████    | 1/5 [00:18<01:14, 18.59s/it]Train loss: 0.6789148535047259
Epoch: 40%|██████████| 2/5 [00:37<00:56, 18.72s/it]Train loss:
0.654381343296596
Epoch: 60%|███████████| 3/5 [00:55<00:36, 18.38s/it]Train loss:
0.6246153563261032
Epoch: 80%|██████████████| 4/5 [01:12<00:18, 18.04s/it]Train loss:
0.44155553196157726
scores.accuracy()=0.6
scores.precision_recall_fscore()=(0.5543478260869565, 0.5166666666666667,
0.45175438596491224)
```

Epoch: 100%|██████████████████| 5/5 [01:30<00:00, 18.09s/it]
/Users/christineschafer/Documents/Uni-Kram/Masterarbeit/Repos/
metaphor_in_political_speeches/venv/lib/python3.10/site-packages/transformers/optimization.py:411: FutureWarning: This implementation of AdamW is deprecated and will be removed in a future version. Use the PyTorch implementation torch.optim.AdamW instead, or set `no_deprecation_warning=True` to disable this warning

```
warnings.warn(
Epoch: 0%|          | 0/5 [00:00<?, ?it/s]fold number 10:
Train loss: 0.6869602501392365
Epoch: 20%|██████    | 1/5 [00:17<01:10, 17.68s/it]Train loss: 0.6850004409040723
Epoch: 40%|██████████| 2/5 [00:35<00:52, 17.65s/it]Train loss:
```

```
0.6791278762476785
Epoch: 60%|██████████| 3/5 [00:52<00:35, 17.63s/it]Train loss:
0.6166121321065086
Epoch: 80%|██████████| 4/5 [01:10<00:17, 17.62s/it]Train loss:
0.5303897580930165
scores.accuracy()=0.4
scores.precision_recall_fscore()=(0.3214285714285714, 0.35,
0.3315508021390374)
K-fold cross-validation results:
Accuracy: 0.5510769230769231
Precision: 0.5409543445684749
Recall: 0.5246498436204319
F-score: 0.48844259434118464
####
recorded_results_per_fold= [(0.5769230769230769, 0.6477272727272727,
0.576923076923077, 0.5193277310924369), (0.6538461538461539,
0.5833333333333333, 0.5261437908496732, 0.48115299334811523), (0.6,
0.5476190476190476, 0.5416666666666666, 0.5404411764705883), (0.56,
0.5608974358974359, 0.5608974358974359, 0.5599999999999999), (0.56,
0.6071428571428572, 0.5876623376623377, 0.548440065681445), (0.48,
0.4891304347826087, 0.4967948717948718, 0.38095238095238093), (0.48,
0.4833333333333334, 0.48397435897435903, 0.4766505636070854), (0.6,
0.6145833333333333, 0.6057692307692308, 0.5941558441558442), (0.6,
0.5543478260869565, 0.5166666666666667, 0.45175438596491224), (0.4,
0.3214285714285714, 0.35, 0.3315508021390374)]
len(set(recorded_results_per_fold))= 10
Epoch: 100%|██████████| 5/5 [01:28<00:00, 17.63s/it]
```

Process finished with exit code 0