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1 D:\project\python\pyTorchTest\.venv\Scripts\python.exe D:\project\
  python\pyTorchTest\homework\week02-1.py
2 Using device: cuda
3 标签映射 label2id: {1: 0, 2: 1, 3: 2, 4: 3, 5: 4, 6: 5, 7: 6, 8: 7, 9
  : 8, 10: 9, 11: 10}
4 Some weights of BertForSequenceClassification were not initialized
  from the model checkpoint at hf\chinese-roberta-wwm-ext and are newly
  initialized: ['classifier.bias', 'classifier.weight']
5 You should probably TRAIN this model on a down-stream task to be able
  to use it for predictions and inference.
6 Epoch 1/3 - Train loss: 0.9968
7 Valid loss: 0.4377, accuracy: 0.8230
8 分类报告 (验证集) :
9             precision    recall   f1-score   support
10
11            1       0.909      0.909      0.909       11
12            2       0.783      0.947      0.857       19
13            3       0.914      0.874      0.893      254
14            4       0.928      0.657      0.770      254
15            5       0.729      0.956      0.827       45
16            6       0.795      0.840      0.817      162
17            7       0.868      0.967      0.915       61
18            8       0.857      0.732      0.789       41
19            9       0.443      0.939      0.602       33
20           10       0.712      0.929      0.806       56
21           11       0.818      0.947      0.878       19
22
23   accuracy          0.823      955
24   macro avg        0.796      0.882      0.824      955
25 weighted avg     0.851      0.823      0.825      955
26
27 □ 新的最佳模型已保存, 验证集准确率: 0.8230
28 Epoch 2/3 - Train loss: 0.3063
29 Valid loss: 0.3986, accuracy: 0.8649
30 分类报告 (验证集) :
31             precision    recall   f1-score   support
32
33            1       0.900      0.818      0.857       11
34            2       0.947      0.947      0.947       19
35            3       0.908      0.929      0.918      254
36            4       0.823      0.843      0.833      254
37            5       0.840      0.933      0.884       45
38            6       0.896      0.747      0.815      162
39            7       0.892      0.951      0.921       61
40            8       0.755      0.902      0.822       41
41            9       0.794      0.818      0.806       33
42           10       0.868      0.821      0.844       56
43           11       0.900      0.947      0.923       19
44
45   accuracy          0.865      955
46   macro avg        0.866      0.878      0.870      955
47 weighted avg     0.867      0.865      0.864      955
48
49 □ 新的最佳模型已保存, 验证集准确率: 0.8649
50 Epoch 3/3 - Train loss: 0.1817
51 Valid loss: 0.3715, accuracy: 0.8764
52 分类报告 (验证集) :
53             precision    recall   f1-score   support
54

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55	1	0.909	0.909	0.909	11
56	2	0.947	0.947	0.947	19
57	3	0.942	0.902	0.922	254
58	4	0.865	0.831	0.847	254
59	5	0.864	0.844	0.854	45
60	6	0.870	0.864	0.867	162
61	7	0.881	0.967	0.922	61
62	8	0.783	0.878	0.828	41
63	9	0.743	0.788	0.765	33
64	10	0.812	0.929	0.867	56
65	11	0.857	0.947	0.900	19
66					
67	accuracy			0.876	955
68	macro avg	0.861	0.891	0.875	955
69	weighted avg	0.878	0.876	0.877	955
70					
71	□ 新的最佳模型已保存，验证集准确率：0.8764				
72	训练完成！最佳验证集准确率： 0.8764397905759163				
73	模型文件保存为： bert_company_classifier.pt				
74					
75	进程已结束，退出代码为 0				
76					