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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 hfl/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
10      precision    recall  f1-score   support
11
12     1      0.909      0.909      0.909        11
13     2      0.783      0.947      0.857        19
14     3      0.914      0.874      0.893       254
15     4      0.928      0.657      0.770       254
16     5      0.729      0.956      0.827        45
17     6      0.795      0.840      0.817       162
18     7      0.868      0.967      0.915        61
19     8      0.857      0.732      0.789        41
20     9      0.443      0.939      0.602        33
21    10      0.712      0.929      0.806        56
22    11      0.818      0.947      0.878        19
23
24    accuracy                0.823        955
25    macro avg              0.796      0.882      0.824        955
26    weighted avg           0.851      0.823      0.825        955
27
28 □ 新的最佳模型已保存, 验证集准确率: 0.8230
29 Epoch 2/3 - Train loss: 0.3063
30 Valid loss: 0.3986, accuracy: 0.8649
31 分类报告 (验证集):
32
33      precision    recall  f1-score   support
34
35     1      0.900      0.818      0.857        11
36     2      0.947      0.947      0.947        19
37     3      0.908      0.929      0.918       254
38     4      0.823      0.843      0.833       254
39     5      0.840      0.933      0.884        45
40     6      0.896      0.747      0.815       162
41     7      0.892      0.951      0.921        61
42     8      0.755      0.902      0.822        41
43     9      0.794      0.818      0.806        33
44    10      0.868      0.821      0.844        56
45    11      0.900      0.947      0.923        19
46
47    accuracy                0.865        955
48    macro avg              0.866      0.878      0.870        955
49    weighted avg           0.867      0.865      0.864        955
50
51 □ 新的最佳模型已保存, 验证集准确率: 0.8649
52 Epoch 3/3 - Train loss: 0.1817
53 Valid loss: 0.3715, accuracy: 0.8764
54 分类报告 (验证集):
55
56      precision    recall  f1-score   support

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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					