

we add 15 unit tests in our project (the "AllTests.java")

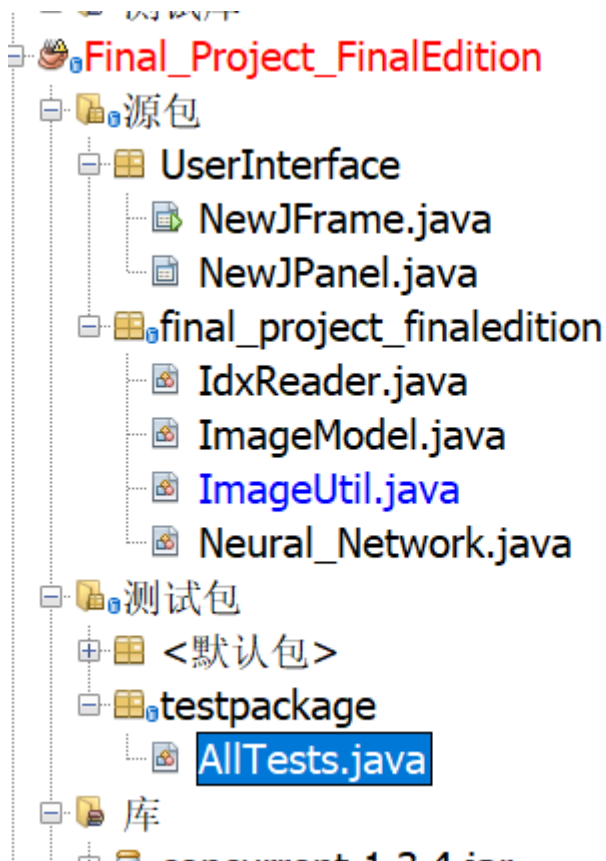
test the project is training complete or not

test the layer number

test the size

test the predict List size

test the 0-9 elements in the training List is correct or not. And an extra test for 10 (obviously, this one did not pass, in our project, we don't have 10)



And this is the out come of the unite test.

The screenshot displays the NetBeans IDE 8.2 interface. The top menu bar includes options like '文件(E)', '编辑(E)', '视图(V)', '导航(N)', '源(S)', '重构(A)', '运行(R)', '调试(D)', '分析(P)', '团队开发(M)', '工具(I)', '窗口(W)', and '帮助(H)'. The toolbar contains icons for file operations and development tools. The left sidebar shows the project structure for 'Final_Project_FinalEdition', including packages like 'UserInterface', 'final_project_finaledition', and 'testpackage'. The central editor shows the source code of 'AllTests.java', which includes a test method 'test2()' and a neural network training loop. The bottom right pane displays the test results for 'testpackage.AllTests'. A red banner at the top of this pane indicates 'Tests passed: 93.33 %'. Below this, a summary states '14 个测试通过, 1 个测试失败. (26.358 秒)'. The list of test results shows that tests 'test10' through 'test15' passed, while 'test15' failed with the message '失败: expected:<10> but was:<9>'. The right side of the results pane shows the output of the training process, including epochs and correct ratios.

Final_Project_FinalEdition - NetBeans IDE 8.2

文件(E) 编辑(E) 视图(V) 导航(N) 源(S) 重构(A) 运行(R) 调试(D) 分析(P) 团队开发(M) 工具(I) 窗口(W) 帮助(H)

搜索 (Ctrl+I)

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...va HashMethodTest.java x NewJPanel.java x ImageModel.java x AllTests.java x Coupon.java x Neural_Network.java x ImageUtil.java x

源 历史记录

```
19 network.SGD(modelList, 100, 0.5);
20 assertTrue(network.isTrain());
21 }
22
23
24 @Test public void test2() {
25     final Neural_Network network = new Neural_Network(new int[] {98, 28, 30, 10});
```

输出 - Final_Project_FinalEdition (test) x 测试结果 x

testpackage.AllTests x

Tests passed: 93.33 %

14 个测试通过, 1 个测试失败. (26.358 秒)

- testpackage.AllTests 失败
- test10 通过 (0.604 秒)
- test11 通过 (0.25 秒)
- test12 通过 (0.2 秒)
- test13 通过 (0.182 秒)
- test14 通过 (0.188 秒)
- test15 失败: expected:<10> but was:<9>
- test1 通过 (23.304 秒)
- test2 通过 (0.184 秒)
- test3 通过 (0.176 秒)
- test4 通过 (0.183 秒)
- test5 通过 (0.174 秒)
- test6 通过 (0.169 秒)
- test7 通过 (0.159 秒)
- test8 通过 (0.166 秒)
- test9 通过 (0.159 秒)

complete train epoch:0
correct ratio:48/500
complete train epoch:1
correct ratio:48/500
complete train epoch:2
correct ratio:48/500
complete train epoch:3
correct ratio:48/500
complete train epoch:4
correct ratio:48/500
complete train epoch:5
correct ratio:48/500
complete train epoch:6
correct ratio:48/500
complete train epoch:7
correct ratio:48/500
complete train epoch:8
correct ratio:48/500
complete train epoch:9
correct ratio:48/500

test11 - 导航器 x

成员

- test10()
- test11()
- test12()
- test13()
- test14()
- test15()

通知 94:41 INS