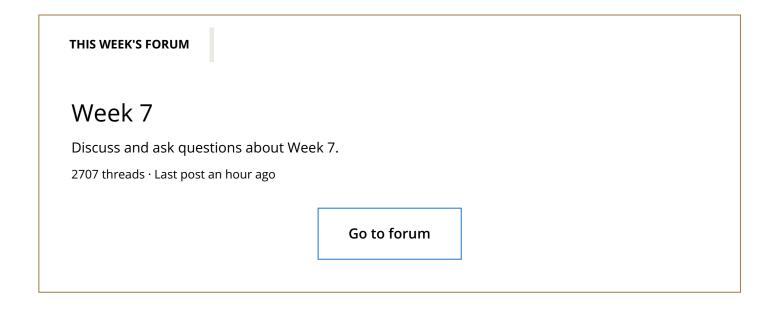
Discussion Forums

Get help and discuss course material with the community.

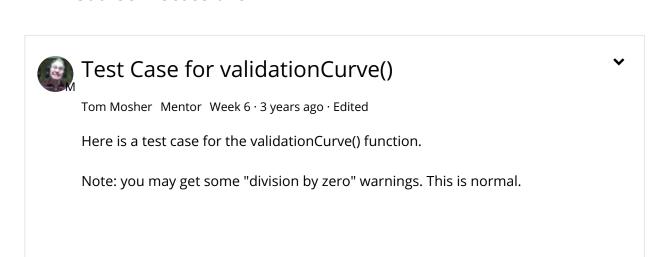


Search

← All Course Discussions

All Threads

Forums



```
Q
```

```
X = [1 \ 2 \ ; \ 1 \ 3 \ ; \ 1 \ 4 \ ; \ 1 \ 5];
    y = [7 6 5 4]';
 2
                                coursera
 3 Xval = [1 7; 1 -2];
   yval = [2 12]';
   [lambda_vec, error_train, error_val] = validationCurve(X,y
 5
         ,Xval,yval )
 6
 7
    % results:
 8
    lambda_vec =
 9
         0.00000
10
         0.00100
11
         0.00300
12
        0.01000
13
        0.03000
14
         0.10000
15
        0.30000
16
        1.00000
17
         3.00000
18
        10.00000
19
20
    error_train =
21
22
       0.00000
23
       0.00000
       0.00000
24
25
       0.00000
26
       0.00002
27
       0.00024
28
       0.00200
29
       0.01736
30
       0.08789
31
       0.27778
32
33
    error_val =
34
35
       0.25000
36
       0.25055
37
       0.25165
38
       0.25553
39
       0.26678
40
       0.30801
41
       0.43970
42
       1.00347
43
        2.77539
44
        6.80556
45
```

==========

keywords: test case validationcurve

Earliest Top Most Recent





Sudhakar Mishra · 2 years ago

i don't know but why my code isn't completing all iterations before giving the result. I think that is a probable case of error in my code. this is what happening when i run my code with test cases.... Results are approximately equal to the given, but not exactly... i Think the reason is it is not iterating as per required no of times

Iteration 7 | Cost: 1.249750e-004

Iteration 24 | Cost: 3.747751e-004

Iteration 10 | Cost: 1.247505e-003

Iteration 21 | Cost: 3.727634e-003

Iteration 7 | Cost: 1.225490e-002

Iteration 11 | Cost: 3.537736e-002

Iteration 10 | Cost: 1.041667e-001

Iteration 14 | Cost: 2.343750e-001

Iteration 12 | Cost: 4.166667e-001

lambda_vec =

0.00000

0.00100

0.00300

0.01000

0.03000

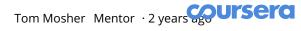
0.10000

0.30000

1.00000

3.00000

10.00000





fmincg() will stop iterating when it thinks it has found a good solution for theta.

But if you cost function doesn't work correctly, this can actually be a bad solution for theta.

I recommend you try the test cases from the Resources menu.

↑ 1 Upvote

CO Christian Pérez Ortiz · 2 years ago

Hi Mr. Mosher,

I ran my implementation with your test case and the output is: