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Week 7

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All

Assignment: Support Vector Machines

[← Week 7](#)

Test case for ex6: dataset3Params()



Tom Mosher · Mentor · Week 7 · 2 years ago

Test case: dataset3Params():

Enter these commands in your console:

```
1 x1plot = linspace(-2, 2, 10)';  
2 x2plot = linspace(-2, 2, 10)';  
3 [X1, X2] = meshgrid(x1plot, x2plot);  
4 X = [X1(:) X2(:)];  
5 Xval = X + 0.3;  
6 y = double(sum(exp(X),2) > 3);  
7 yval = double(sum(exp(Xval),2) > 3);  
8 [C sigma] = dataset3Params(X, y, Xval, yval)
```

You should observe these results for selected values of C and sigma. You will need to view the values from inside your dataset3Params function - perhaps using a breakpoint.



```
1 % best C and sigma:
2 C = 0.1
3 sigma = 1.0
4
5 % table of results for selected C and sigma
6 Errors      C      sigma
7 0.06000    0.10000  0.10000
8 0.04000    0.10000  0.30000
9 0.00000    0.10000  1.00000
10 0.06000    0.30000  0.10000
11 0.04000    0.30000  0.30000
12 0.04000    0.30000  1.00000
13 0.06000    1.00000  0.10000
14 0.04000    1.00000  0.30000
15 0.02000    1.00000  1.00000
```

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Dummy reply to prevent unnecessary warnings...

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