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Week 3

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Assignment: Logistic Regression

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ex2 test cases for costFunction() and costFunctionReg()



Tom Mosher · Mentor · Week 3 · 3 years ago · Edited

(contributed by mentor Paul T Mielke)

Here is another test case that is a robust because the X matrix is not square and theta has no zero values.

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(note: updated 1/24/2017 changing lambda from 3 to 4)



```
1 X = [ones(3,1) magic(3)];
2 y = [1 0 1]';
3 theta = [-2 -1 1 2]';
4
5 % un-regularized
6 [j g] = costFunction(theta, X, y)
7 % or...
8 [j g] = costFunctionReg(theta, X, y, 0)
9
10 % results
11 j = 4.6832
12
13 g =
14     0.31722
15     0.87232
16     1.64812
17     2.23787
18
19 % regularized
20 [j g] = costFunctionReg(theta, X, y, 4)
21 % note: also works for ex3 lrCostFunction(theta, X, y, 4)
22
23 % results
24 j = 8.6832
25 g =
26
27     0.31722
28    -0.46102
29     2.98146
30     4.90454
31
```

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