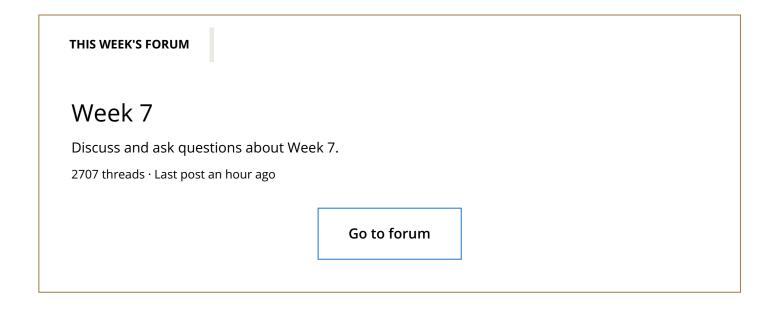
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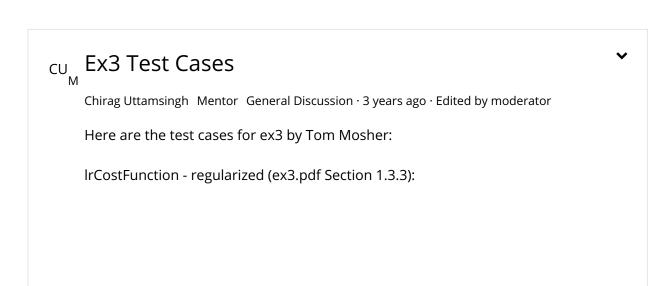


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```
1 % input
 2 theta = [-2; -1; 1; 2];
2 X = [ones(5,1) \ reshape(1:15,5,3)/10];
 4 y = [1;0;1;0;1] >= 0.5;
                                 % creates a logical array
 5
 6 % test the unregularized results
 7 [J grad] = lrCostFunction(theta, X, y, 0)
9 % results
10 J = 0.73482
11 grad =
12
13
       0.146561
14
       0.051442
15
       0.124722
16
       0.198003
17
18 % test the regularized results
19 lambda = 3;
20 [J grad] = lrCostFunction(theta, X, y, lambda)
21
22 % results
J = 2.5348
24 grad =
25
26
       0.14656
27
      -0.54856
28
       0.72472
29
       1.39800
```

Note: your cost function must return the gradient as a column vector (size  $n \times 1$ ), NOT as a row vector (1 x n).

====

oneVsAll:

```
1 %input:
2 X = [magic(3); sin(1:3); cos(1:3)];
3 y = [1; 2; 2; 1; 3];
4 num_labels = 3;
5 lambda = 0.1;
6 [all_theta] = oneVsAll(X, y, num_labels, lambda)
7 %output:
8 all_theta =
9 -0.559478  0.619220 -0.550361 -0.093502
10 -5.472920 -0.471565  1.261046  0.634767
11  0.068368 -0.375582 -1.652262 -1.410138
```

====

predictOneVsAll:

Note: your prediction function should NOT include any use of a fixed threshold. Select the classifier with the maximum output.

=====

predict:

```
Theta1 = reshape(sin(0 : 0.5 : 5.9), 4, 3);
2 Theta2 = reshape(sin(0 : 0.3 : 5.9), 4, 5);
3 X = reshape(sin(1:16), 8, 2);
4 p = predict(Theta1, Theta2, X)
5 % you should see this result
6 p =
7
      4
8
      1
9
      1
10
      4
11
      4
12
      4
13
      4
      2
14
```

Note: your prediction function should NOT include any use of a fixed threshold. Select the classifier with the maximum output.

Here are the values for the "a3" layer in the test case for predict().

```
1
  a3 =
2
                       0.55725 0.56352
3
      0.53036
               0.54588
4
      0.54459
             0.54298 0.53754 0.52875
5
      0.49979 0.49616 0.49288 0.49024
6
      0.41357
              0.42199 0.43736 0.45844
7
                      0.44349 0.48911
      0.37321
               0.40368
8
      0.42073
             0.45935
                      0.50210 0.54464
9
      0.50962
               0.53216 0.55173
                                0.56659
10
      0.54882
               0.55033 0.54738 0.54021
```

=====

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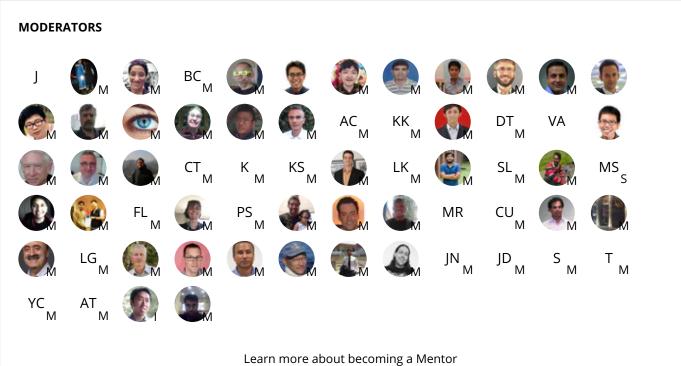
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