

## Discussion Forums

## Week 3

## SUBFORUMS

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Assignment: Logistic Regression

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## Making plotDecisionBoundary.m a little more useful



Tom Mosher · Mentor · Week 3 · 8 months ago · Edited

The plotDecisionBoundary.m function is hard-coded for the range of X values that are used in the ex2 programming exercise.

You can modify the function so it works for more general purposes by:

```
1 % insert this code before line 17
2 dx = range(X(:,2)) * 0.02;
3
4 % comment out this line and replace
5 % allows the line to scale with the data set
6 %plot_x = [min(X(:,2))-2, max(X(:,2))+2];
7 plot_x = [min(X(:,2))-dx, max(X(:,2))+dx];
8
9 % comment-out this line
10 %axis([30, 100, 30, 100])
11
12 % replace these lines as follows
13
14 % comment-out the original code and replace as shown
15 %u = linspace(-1, 1.5, 50);
16 %v = linspace(-1, 1.5, 50);
17
18 % this lets the contour plot auto-range to the X data set
19 u = linspace(min(X(:,2)), max(X(:,2)), 50);
20 v = linspace(min(X(:,3)), max(X(:,2)), 50);
```



This isn't a graded function, so you can modify it without impacting your course grade.



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Saurabh Kumar · 8 months ago



Thank you sir!!

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