

## Errata Week 7

### Errata in video lectures

- In 'Optimization Objective', starting at 9:25, the SVM regularization term should start from  $j=1$ , not  $j=0$ .
- In 'Optimization Objective', starting at 13:37, the SVM regularization term should be summing over  $j$  instead of  $i$ :  $\sum_{j=1}^n \theta_j^2$ .
- In 'Large Margin Intuition', starting from 1:04, should be labelled  $z \leq -1$ , for graphic on the right. (It is drawn correctly).
- In 'Mathematics Behind Large Margin Classification', starting from 11:22, second condition should be  $p^{(i)} \cdot |\theta| \leq -1$  if  $y^{(i)} = 0$  instead of  $y^{(i)} = 1$ . This persists also in the quiz.
- In 'Mathematics Behind Large Margin Classification', at 16:33, Dr. Ng writes towards the right of the slide that for a vertical decision boundary,  $p^{(1)} \cdot ||\theta|| > 0$ , while it should be  $p^{(1)} \cdot ||\theta|| > 1$ .
- In the 'Kernels I' video quiz, the notation surrounding  $x_1 - l^{(1)}$  inside the  $\exp()$  function is the norm notation.
- In 'Using An SVM', at 13:51, Dr. Ng writes  $\theta = K$  instead of class  $y=K$

### Errata in programming assignment ex6

- In ex6.pdf, typo on page 1: "SVM rraining function" should be "SVM training function"
- In ex6.m at line 69: Inside the fprintf() statement, the text "sigma = 0.5" should be "sigma = 2"
- In ex6.pdf, typo in section 1.2.2 on page 6: "obserse" should be 'observe'.
- In ex6.pdf, in section 1.2.3 on page 7: The submit grader requires that you use exactly the eight values listed for both C and sigma.



- In dataset3Params.m, at line 2 "EX6PARAMS" should be "DATASET3PARAMS".
- In visualizeBoundary.m at line 21, the statement "contour(X1, X2, vals, [0 0], 'Color', 'b');" does not reliably display the contour plot on all platforms. The form "contour(X1, X2, vals, [0.5 0.5], 'linecolor', 'b');" seems to be a better choice.