

Setting up your Machine Learning Application

- Video: Train / Dev / Test sets 12 min
- Video: Bias / Variance 8 min
- Video: Basic Recipe for Machine Learning 6 min

Connect with your Mentors and Fellow Learners on Discourse!

- Reading: Connect with your Mentors and Fellow Learners on Discourse! 10 min

Regularizing your Neural Network

- Reading: Clarification about Upcoming Regularization Video 1 min
- Video: Regularization 9 min
- Video: Why Regularization Reduces Overfitting? 7 min
- Video: Dropout Regularization 9 min
- Reading: Clarification about Upcoming Understanding Dropout Video 1 min
- Video: Understanding Dropout 7 min
- Video: Other Regularization Methods 8 min

Setting Up your Optimization Problem

Lecture Notes (Optional)

Quiz

Programming Assignments

Heroes of Deep Learning (Optional)



Clarification about Upcoming Regularization Video

Please note that in the next video at 5:45, the Frobenius norm formula should be the following:

$$||w^{[l]}||^2 = \sum_{i=1}^{n^l} \sum_{j=1}^{n^{[l-1]}} (w_{i,j}^{[l]})^2$$

The limit of summation of i should be from 1 to $n^{[l]}$,

The limit of summation of j should be from 1 to $n^{[l-1]}$.

(it's flipped in the video). The rows "i" of the matrix should be the number of neurons in the current layer $n^{[l]}$;

whereas the columns "j" of the weight matrix should equal the number of neurons in the previous layer $n^{[l-1]}$.

Mark as completed

