



Deadline: You must submit this week's assignments by **March 4, 2018, 11:59 PM PST**.



Like this course? Become an expert by joining the Deep Learning Specialization.

THIS WEEK'S FORUM

Week 3

Discuss this week's modules here.

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Hyperparameter tuning, Batch Normalization and Programming Frameworks



Learning Objectives

Master the process of hyperparameter tuning

⬆ Less

Hyperparameter tuning

[Start Lesson](#)



Tuning process 7 min

- ▶ Using an appropriate scale to pick hyperparameters 8 min
 - ▶ Hyperparameters tuning in practice: Pandas vs. Caviar 6 min
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Batch Normalization

- ▶ Normalizing activations in a network 8 min
 - ▶ Fitting Batch Norm into a neural network 12 min
 - ▶ Why does Batch Norm work? 11 min
 - ▶ Batch Norm at test time 5 min
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Multi-class classification

- ▶ Softmax Regression 11 min
 - ▶ Training a softmax classifier 10 min
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Introduction to programming frameworks

- ▶ Deep learning frameworks 4 min
 - ▶ TensorFlow 16 min
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Practice Questions

Quiz:

Hyperparameter tuning, Batch Normalization, Programming
Frameworks 10 questions Due in 5 hours

Programming assignment

● Tensorflow 3h

● **Programming Assignment:**
Tensorflow Due in 5 hours

