

Deadline: You must submit this week's assignments by February 25, 2018, 11:59 PM PST.



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

THIS WEEK'S FORUM

Week 2

Discuss this week's modules here.

Go to forum

Optimization algorithms

Learning Objectives

Remember different optimization methods such as (Stochastic) Gradient Descent, Momentum, RMSProp and Adam

Use random minibatches to accelerate the convergence and improve the optimization

Know the benefits of learning rate decay and apply it to your optimization

▲ Less

Optimization algorithms

Start Lesson

- Min
 - Mini-batch gradient descent 11 min

Understanding mini-batch gradient descent 11 min

Exponentially weighted averages 5 min
▶ Understanding exponentially weighted averages 9 min
▶ Bias correction in exponentially weighted averages 4 min
● Gradient descent with momentum 9 min
RMSprop 7 min
Adam optimization algorithm 7 min
▶ Learning rate decay 6 min
The problem of local optima 5 min
Practice Questions Quiz: Optimization algorithms 10 questions Due in 5 days
Programming assignment

Optimization 2h

Programming Assignment: Optimization 30 min Due in 5 days

Heroes of Deep Learning (Optional)



► Yuanqing Lin interview 13 min