



deeplearning.ai

Deep Neural Networks

Parameters vs
Hyperparameters

What are hyperparameters?

Parameters: $W^{[1]}, b^{[1]}, W^{[2]}, b^{[2]}, W^{[3]}, b^{[3]} \dots$

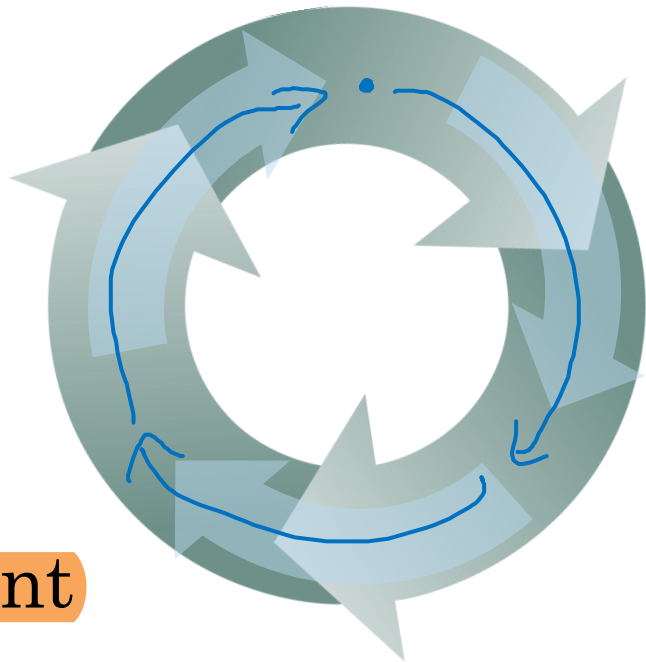
Hyperparameters: α
#iterations
#hidden layers L
hidden units $n^{[1]}, n^{[2]}, \dots$
choice of activation function

Later: Momentum, mini-batch size, regularizations, ...

Applied deep learning is a very empirical process

Idea

$$\alpha = \cancel{0.01} \\ 0.05$$



Experiment

Code

Vision, Speech, NLP, Ad, Search, Recommendation.

