



What do you want to learn?





Prasun Mondal V

Prev | Next

Neural Networks and Deep Learning > Week 4 > Deep Neural Network - Application <u>=</u>

Deep Neural Network

Video: Deep L-layer neural

Video: Forward Propagation in a Deep Network

Reading: Clarification about Getting your matrix dimensions right video

Video: Getting your matrix 11 min

Video: Why deep representations

Video: Building blocks of deep neural networks

Reading: Clarification about Upcoming Forward and Backward Propagation Video

Video: Forward and Backward Propagation 10 min

Video: Parameters vs Hyperparameters

with the brain video

Video: What does this have to do with the brain?

Practice Questions

Neural Networks 10 questions

Programming Assignments

Notebook: Building your Deep Neural Network: Step

Programming Assignment: Building your deep neural network: Step by Step

Network - Application

Programming Assignment: Deep Neural Network Application

Deep Neural Network - Application

Congratulations! Welcome to the fourth programming exercise of the deep learning specialization. You will now use everything you have learned to build a deep neural network that classifies cat vs. non-cat images.



In the second exercise, you used logistic regression to build cat vs. non-cat images and got a 68% accuracy. Your algorithm will now give you an 80% accuracy! By completing this assignment, you will:

- Learn how to use all the helper functions you built in the previous assignment to build a model of any structure you want.
- Experiment with different model architectures and see how each one behaves.
- Recognize that it is always easier to build your helper functions before attempting to build a neural network from scratch.

This assignment prepares you well for the next course which dives deep into the techniques and strategies for parameterstuning and initializations. Take your time to complete this assignment and make sure you get the expected outputs when working through the different exercises. In some code blocks, you will find a "#GRADED FUNCTION: functionName" comment. Please do not modify it. After you are done, submit your work and check your results. You need to score 70% to pass. Good luck

Open Notebook