✓ Congratulations! You've completed Week 4   Start Week 5

THIS WEEK'S FORUM

Week 4

Discuss and ask questions about Week 4.

Go to forum

Neural Networks: Representation

Andrew Ng

Welcome to week 4! This week, we are covering neural networks. Neural networks is a model inspired by how the brain works. It is widely used today in many applications: when your phone interprets and understand your voice commands, it is likely that a neural network is helping to understand your speech; when you cash a check, the machines that automatically read the digits also use neural networks.

∧ Less

Motivations

✓ **Video:** Non-linear Hypotheses   9 min

✓ **Video:** Neurons and the Brain   7 min

Neural Networks

✓ **Video:** Model Representation I   12 min

✓ **Reading:** Model Representation I   6 min

✓ **Video:** Model Representation II   11 min

Applications

✓ **Video:** Examples and Intuitions I   7 min

✓ **Reading:** Examples and Intuitions I   2 min

✓ **Video:** Examples and Intuitions II   10 min

✓ **Reading:** Examples and Intuitions II   3 min

✓ **Video:** Multiclass Classification   3 min

✓ **Reading:** Multiclass Classification   3 min

Review

✓ **Reading:** Lecture Slides   10 min

✓ **Quiz:** Neural Networks: Representation   5 questions

✓ **Programming Assignment:** Multi-class Classification and Neural Networks   3h