

Enhancing Vision with Convolutional Neural Networks

- Video: A conversation with Andrew Ng 1 min
- Video: What are convolutions and pooling? 2 min
- **Reading:** Coding convolutions and pooling layers 10 min
- Video: Implementing convolutional layers 1 min
- **Reading:** Learn more about convolutions 10 min
- Video: Implementing pooling layers 4 min
- Reading: Getting hands-on, your first ConvNet 10 min
- Video: Improving the Fashion classifier with convolutions 4 min
- **Reading:** Try it for yourself 1h
- Video: Walking through convolutions 3 min
- **Reading:** Experiment with filters and pools 1h
- Quiz: Week 3 Quiz 6 questions

Weekly Exercise -Improving DNN Performance using Convolutions

Optional: Ungraded Google Colaboratory environment

<u> </u>	/	Congratulations!	You p	assed
		TO PASS 80% or higher		

Keep Learning

GRADE 100%

Week 3 Quiz		
Week 3 Quiz		
LATEST SUBMISSION GRADE 100% Submit your assignment		Toursein
DUE DATE Jul 20, 12:29 PM IST ATTEMPTS 3 every 8 hours 1. What is a Convolution?	1/1 point	Try again
A technique to isolate features in images Receive grade A technique te அத்து நகுத்	Grade 100%	View Feedback
A technique to filter out unwanted images	10070	We keep your highest scor
○ A technique to make images bigger✓ Correct		& P F
2. What is a Pooling?	1 / 1 point	
A technique to isolate features in images		
A technique to reduce the information in an image while maintaining features		
A technique to make images sharper		
A technique to combine pictures		
Correct		

3.	How do Convolutions improve image recognition?				

- They make the image clearer They make processing of images faster
- They make the image smaller
- They isolate features in images

✓ Correct

- 4. After passing a 3x3 filter over a 28x28 image, how big will the output be? 1 / 1 point
- 26x26
- 25x25
- 31x31
- 28x28

✓ Correct

5. After max pooling a 26x26 image with a 2x2 filter, how big will the output be?

1 / 1 point

- 56x56
- 13x13
- 28x28
- 26x26

✓ Correct

6. Applying Convolutions on top of our Deep neural network will make training:

1 / 1 point

- Slower
- It depends on many factors. It might make your training faster or slower, and a poorly designed Convolutional layer may even be less efficient than a plain DNN!
- Stay the same
- Faster