

Week 3 Quiz

TOTAL POINTS 6

1. What is a Convolution?

1 point

- ☒ A technique to isolate features in images
- ☐ A technique to filter out unwanted images
- ☐ A technique to make images smaller
- ☐ A technique to make images bigger

2. What is a Pooling?

1 point

- ☐ A technique to make images sharper
- ☐ A technique to combine pictures
- ☐ A technique to isolate features in images
- ☒ A technique to reduce the information in an image while maintaining features

3. How do Convolutions improve image recognition?

1 point

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

4. After passing a 3x3 filter over a 28x28 image, how big will the output be?

1 point

- ☒ 26x26
- ☐ 25x25
- ☐ 31x31
- ☐ 28x28

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

1 point

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

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

1 point

- ☐ Slower
- ☐ Faster
- ☒ 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