Deep convolutional models

LATEST SUBMISSION GRADE

100%

1. Which of the following do you typically see as you move to deeper layers in a ConvNet?

    1 / 1 point

    ✓ Correct

2. Which of the following do you typically see in a ConvNet? (Check all that apply.)

    1 / 1 point

    ✓ Correct

3. In order to be able to build very deep networks, we usually only use pooling layers to downsize the height/width of the activation volumes while convolutions are used with "valid" padding. Otherwise, we would downsize the input of the model too quickly.

    1 / 1 point

    ✓ Correct

5. The following equation captures the computation in a ResNet block. What goes into the two blanks above?

    1 / 1 point

    $$a^{[l+2]} = g(W^{[l+2]}g(W^{[l+1]}a^{[l]} + b^{[l+1]}) + b^{[l+2]} + _____) + _____$$

    ✓ Correct

6. Which ones of the following statements on Residual Networks are true? (Check all that apply.)

    1 / 1 point

    ✓ Correct

7. Suppose you have an input volume of dimension 64x64x16. How many parameters would a single 1x1 convolutional filter have (including the bias)?

    1 / 1 point

    ✓ Correct

8. Suppose you have an input volume of dimension n_H x n_W x n_C. Which of the following statements you agree with? (Assume that "1x1 convolutional layer" below always uses a stride of 1 and no padding.)

    1 / 1 point

    ✓ Correct

9. Which ones of the following statements on Inception Networks are true? (Check all that apply.)

    1 / 1 point

    ✓ Correct

10. Which of the following are common reasons for using open-source implementations of ConvNets (both the model and/or weights)? Check all that apply.

    1 / 1 point

    ✓ Correct