Assignment-7 (Quiz) - Results

Attempt 2 of 2

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Attempt Score **1.6 / 2 - 80 %**

Overall Grade (Highest Attempt) **1.6 / 2 - 80 %**

Question 1

You have an input with shape 32 x 32, and apply max pooling with a 2 x 2 filter using a stride of 2. What will be the shape of the output volume?

- ✔ 16 x 16
- 15 x 15
- 14 x 14
- 17 x 17

Question 2

Suppose we have a color image (RGB) as input which we convolve with 10 filters to generate an output represented by the tensor T. The information learned by the 2nd filter (counting starts from 0) is represented using python notation as

- ✖ T[:, :, 1]
- T[:, 2, :]
- T[1, :, :]
- ➡ T[:, :, 2]

Question 3

Suppose you have an input that is a 10 x 10 color image (RGB) for which you use a fully-connected 2-layer neural network with 8 nodes in the hidden layer. How many parameters need to be trained for the hidden layer?

- 2407
- ✔ 2408

- 2410
- 2409

Question 4

Suppose we apply a 1 x 1 convolution filter to an input of shape 10 x 1 with no zero padding and unit stride. What will be the shape of the output?

- 1 x 10
- 1 x 9
- ✓ 10 x 1
- 9 x 1

Question 5

In a CNN architecture, which of the following is not an effect of introducing pooling layers in between successive convolution layers?

- Reduce the number of parameters that need to be trained
- Prevent model overfitting
- ✓ Batch normalize the input for the next convolution layer
- Progressively reduce the spatial size of the feature representation

Done