Assignment-7 (Quiz) - Results

Attempt 1 of 2

Written Feb 28, 2024 1:29 PM - Feb 28, 2024 1:39 PM

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

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

Question 1

You have an input volume with shape 32 x 32 x 16, 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 x 16
- 16 x 16 x8
- 15 x 15 x16
- 32 x 32 x 8

Question 2

What would you set the padding of a 2D convolution filter to be (as a function of the filter width f) to ensure that the output has the same dimension (width and height) as the input? Assume that the stride is 1 and that the filter shape is f x f.

- f-1
- (f+1)/2
- ✔ (f-1)/2
- 2(f+1)

Question 3

Suppose you have an input volume of shape 10 x 10 x 3 for which you use a 2-layer CNN with the hidden layer corresponding to three 2 x 2 filters with unit zero padding and unit stride. How many parameters need to be trained for the hidden layer?

- ➡ 39
- ✖ 36

- 15
- 24

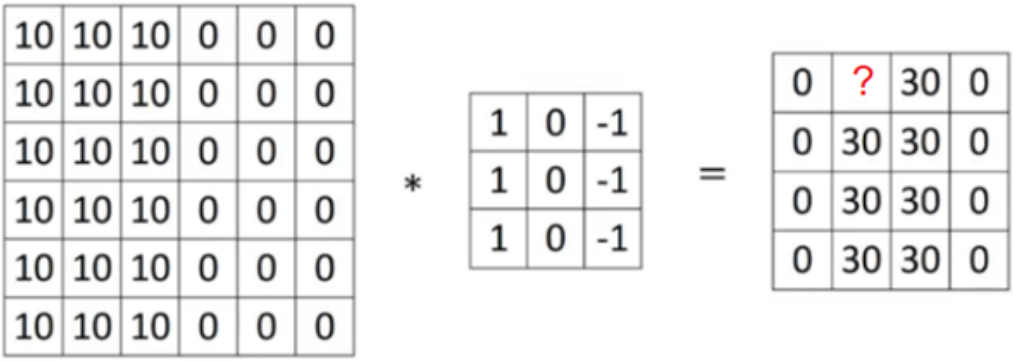
Question 4

You have an input of shape 32 × 32. What will be the shape of the resulting output after convolving with a single 5 × 5 filter with unit zero padding and unit stride?

- 29 x 29
- 32 x 32
- 31 x 31
- ✔ 30 x 30

Question 5

Fill in the missing entry in the output of the convolution operation below assuming no zero padding and unit stride:



- 10
- -1
- 0
- ✔ 30

Done