



Congratulations! You passed!

[Next Item](#)

1 / 1
point

1.

Which of the below is the definition for a convolution as used in machine learning?



1 / 1
point

2.

Suppose your convolutional neural network is going to be trained on input images with 3 channels (red, green, and blue) for color and a resolution of 1024 by 768 pixels (horizontal by vertical).

If the input image data is passed into a convolutional layer created in TensorFlow with 10 filters, 3 by 3 kernels for each filter, with a stride of 1 and 'same' padding, what will be the shape of the output of the convolutional layer? (NOTE: in the answers ? represents the batch dimension)



1 / 1
point

3.

Suppose that one of the layers of your convolutional neural network outputs a tensor with a shape of $? \times 320 \times 200 \times 1$ where ? represents the batch dimension. If the output is passed into a maxpooling layer created in TensorFlow with 4 by 4 maxpooling kernels and a stride of 4, what will be the shape of the output of the maxpooling layer?



1 / 1
point

4.

In a convolutional neural network architecture for image classification, which of the following types of layers is used as the last hidden layer that produces the network output?

CNNs

Quiz, 4 questions

4/4 points (100%)

