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Review Questions

Instructions for Review Questions

1. Time allowed: **Unlimited**

- We encourage you to go back and review the materials to find the right answer
- Please remember that the Review Questions are worth 50% of your final mark.

2. Attempts per question:

- One attempt - For True/False questions
- Two attempts - For any question other than True/False

3. Check your grades in the course at any time by clicking on the "Progress" tab

Review Question 1

1/1 point (graded)

Why is the convolutional layer important in convolutional neural networks?

- ☐ Because convolutional neural networks take flattened images as input and therefore the convolutional layer helps the model regenerate the input images
- ☐ Because convolutional neural networks are unsupervised deep learning models and therefore, a convolutional layer helps the model better fit the data
- ☒ Because if we do not use a convolutional layer, we will end up with a massive number of parameters that will need to be optimized and it will be super computationally expensive ✓
- ☐ Because a convolutional layer would make the model overfit the training data so that it generalizes better

☐ None of the above

Submit

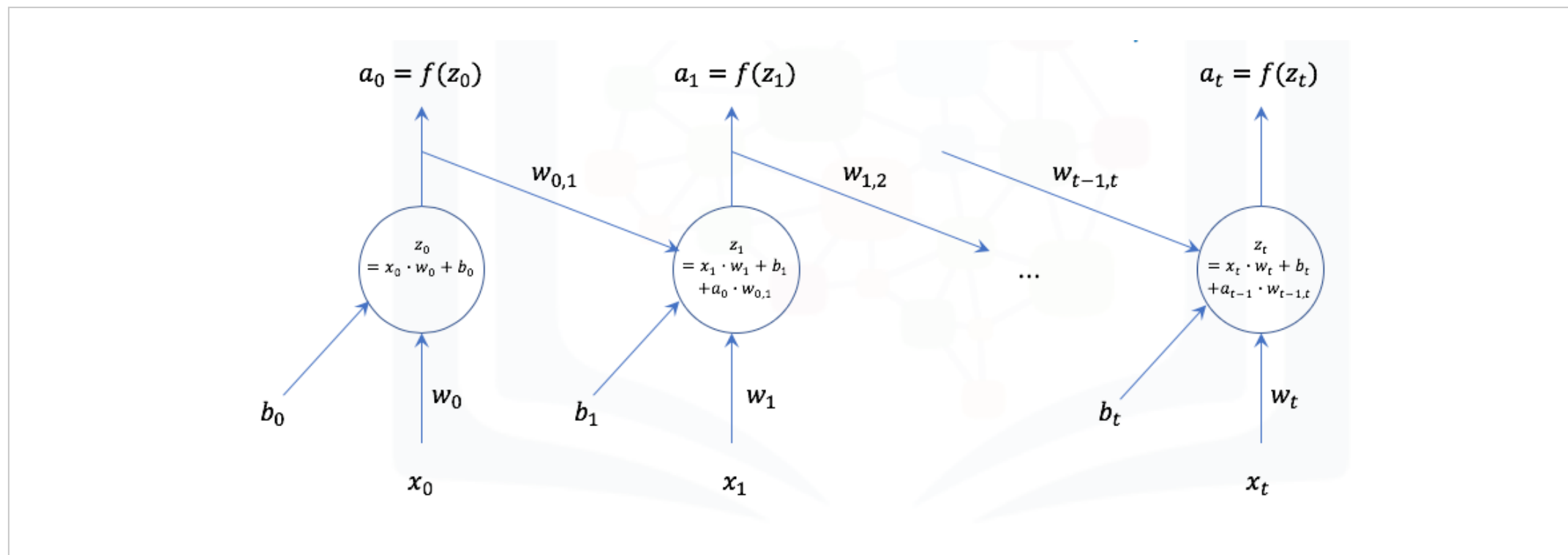
You have used 1 of 2 attempts

✓ Correct (1/1 point)

Review Question 2

1/1 point (graded)

The following is a typical architecture of a convolutional neural network.



☐ True

☒ False ✓

Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Review Question 3

1/1 point (graded)

For unsupervised learning, which of the following deep neural networks would you choose? Select all that apply

☐ Convolutional Neural Netwroks

☒ Autoencoders

☐ Recurrent Neural Networks

☒ Restricted Boltzmann Machines

☐ Long Short Term Memory Networks



Submit

You have used 1 of 2 attempts

✓ Correct (1/1 point)

Review Question 4

1/1 point (graded)

Recurrent Neural Networks are networks with loops, that don't just take a new input at a time, but also take as input the output from the data point at the previous instance.

☒ True ✓

☐ False

Submit

You have used 1 of 2 attempts

✓ Correct (1/1 point)

Review Question 5

1/1 point (graded)

Which of the following statements is correct?

- ☒ An autoencoder is an unsupervised neural network model that uses backpropagation by setting the target variable to be the same as the input ✓
- ☐ Recurrent neural networks are best for solving problems related to image recognition, object detection, and other computer vision applications
- ☐ An autoencoder consists of a series of convolutional, ReLU, and pooling layers, as well as a number of fully connected layers
- ☐ Just like conventional neural networks, a convolutional neural network takes (n x 1) vectors as input
- ☐ A convolutional neural network is an unsupervised neural network model that uses backpropagation by setting the target variable to be the same as the input

Submit

You have used 1 of 2 attempts

✓ Correct (1/1 point)

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