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#### **:≡** Course Content

# Quiz - Deep Learning

Type : Mandatory Assessment

 Attempts
 : 1/1

 Questions
 : 10

 Time
 : 45m

**Due Date** : Jul 11, 2:00 AM CST

**Your Marks** : 24/30

Instructions

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### **Attempt History**

## Attempt #1

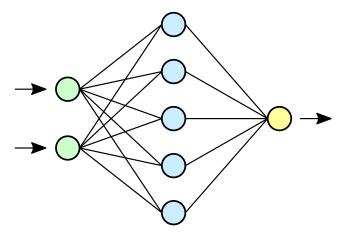
Jul 07, 12:43 PM

Marks: 24

Q No: 1

Correct Answer

Marks: 3/3



In the above diagram of a Neural Network, the layer with blue-colored nodes is called the \_\_\_\_\_.

O Input layer	
Hidden layer	You Selected
Output layer	
None of the abo	ve
Green circles - Input Blue circles - Hidden Yellow circle - Outpu	layer
Q No: 2	Correct Answer
	Marks: 3/3
Which of the following	statements is/are true about the activation function?
A) An activation function	n is one of the critical components that give neural networks the ability to deal with complex problems
B) We can use Sigmoi	d, Tanh, or ReLU as an activation function in NN
C) The activation funct	ion introduces non-linearity into the neural network
Only A and B	
Only A and C	
Only B and C	
A, B, and C	You Selected
	are the component that help neural networks deal with complex problems. There are a number of options for ke Tanh, ReLU, Sigmoid, and Linear Activation which can be used in NNs. Activation functions introduce non-em.
Q No: 3	Correct Answer
Which of the following	Marks: 3/3
	statements is/are true about the Gradient Descent Algorithm?
·	loss function, there is a possibility to get stuck in local minima during optimization
,	ns can lead to different outcomes
	o small, the progress in loss function optimization will also be very slow
D) Step size does not	affect the Gradient Descent Algorithm

Only A and B	
Only C and D	
Only A, B, and C	You Selected
A, B, C, and D	
2. Outcomes are depend to a vanishing gradien 3. A step size that is too	large can cause the model to converge too quickly to a suboptimal solution, whereas a learning rate that is too eights to be updated very slowly, which makes the training process slow. Therefore step size heavily affects the
Q No: 4	Incorrect Answer
Which of the following is	Marks: 0/3 s/are the challenge(s) associated with training a neural network?
A) Exploding/Vanishing	gradients
B) Computationally Exp	ensive
O A and B	Correct Option
Only A	You Selected
Only B	
Neither A nor B	
occurs due to the chai	rge, then the product can be too small/too large, which results in a vanishing/exploding gradient problem that n rule of the derivatives.  forward and back-propagation, and the high number of learnable parameters (multiple nodes and layers), ork can become computationally expensive.
Q No: 5	Correct Answer

O It is used to conve	rt images to vectors	
O It is used to increa	se the size of the image	
It is very helpful in	extracting the dominant attributes of the image and results in less computational needs	You Selected
None of the above		
image by calculating th	to reduce the parameters in the feature map. It is very helpful in extracting the dominant attree value in each patch of the feature map based on the type of pooling technique. As a result, and the amount of computation in the network are both reduced.	
Q No: 6	Correct Answer	
Do pooling layers have a	any parameters to learn?	Marks: 3/3
O Yes		
No		You Selected
Pooling extracts the va the type of pooling (ma	lue in each patch of each feature map. It doesn't have any parameters to learn, calculates the x, average, and min).	value based on
Q No: 7	Correct Answer	
Which of the following st	atements is/are true?	Marks: 3/3
	a lower size results in loss of information	
B) By applying pooling, v	we can increase the size of the image	
C) CNNs tend to perform	better if the input dataset is augmented with the rotated versions of the images	
Only A and B		
Only B		
Only A and C		You Selected
A, B, and C		
	lower size will reduce the pixel quality of the image, compress the data and lead to loss of info to reduce the dimensions of the feature maps. It will reduce the number of parameters to be	

Q No: 8	Correct Answer
Vhich of the following is/	are the application(s) of Computer Vision?
Image Segmentation	on
Face Detection	
Object Detection	
All of the above	You Selecte
Computer vision is one detection, etc.	of the trending technology that has various applications like Image Segmentation, Face detection, Object
≀ No: 9	Incorrect Answer
) No: 9	Incorrect Answer  Marks:
	Marks
Vhich of the following stand	Marks: atements is/are true about Transfer Learning?
Which of the following stand) It is useful because gently lightly lightly length.	Marks. eatements is/are true about Transfer Learning? enerating a huge amount of labeled data is very expensive
Vhich of the following stand) It is useful because gently lit is computationally le	Marks: eatements is/are true about Transfer Learning? enerating a huge amount of labeled data is very expensive ess expensive than training a large neural network from scratch
Which of the following stand) It is useful because generally less to the computationally less) We use weights of son	Marks: eatements is/are true about Transfer Learning? enerating a huge amount of labeled data is very expensive ess expensive than training a large neural network from scratch
Which of the following stands	Marks: atements is/are true about Transfer Learning? enerating a huge amount of labeled data is very expensive ess expensive than training a large neural network from scratch me pre-trained model and fine-tune that model according to the problem at hand
Which of the following stands of the following stands of the second of the following stands of the fol	Marks atements is/are true about Transfer Learning? enerating a huge amount of labeled data is very expensive ess expensive than training a large neural network from scratch me pre-trained model and fine-tune that model according to the problem at hand  You Selecte
Which of the following state  A) It is useful because get  B) It is computationally le  C) We use weights of sort  Only A and B  Only B  A, B, and C  Transfer Learning is use	Arks attements is/are true about Transfer Learning?  Enerating a huge amount of labeled data is very expensive  Ess expensive than training a large neural network from scratch  The pre-trained model and fine-tune that model according to the problem at hand  You Selecte  Correct Option  Full because generating huge amounts of labeled data is very expensive. Since we use weights of some pre-trune them based on the problem on hand, transfer learning is computationally less expensive than training a
Which of the following state  A) It is useful because get  B) It is computationally le  C) We use weights of sort  Only A and B  Only B  A, B, and C  Transfer Learning is use trained models and fine	Arks attements is/are true about Transfer Learning?  Enerating a huge amount of labeled data is very expensive  Ess expensive than training a large neural network from scratch  The pre-trained model and fine-tune that model according to the problem at hand  You Selecte  Correct Option  Full because generating huge amounts of labeled data is very expensive. Since we use weights of some pre-trune them based on the problem on hand, transfer learning is computationally less expensive than training a

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