Machine Learning

Artificial Intelligence

Deep Learning

QUIZ TOP	IC - DEE	P LEARI	VING
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O A. A r	neuron has a single input and only single output
○ B. A n	neuron has multiple inputs and multiple outputs
OC. Ar	neuron has a single input and multiple outputs
OD. All	of the above ✔
. Which o	of the following is an example of deep learning?
O A. Sel	f-driving cars
○ B. Pat	tern recognition
○ C. Na	tural language processing
OD. All	of the above ✓
. Which o	of the following statement is not correct?
○ A. Ne	ural networks mimic the human brain
● B. It c	an only work for a single input and a single output 🗸
○ C. It c	an be used in image processing
O D. No	ne
. Autoen	coder is an example of-
O A. De	ep learning 🗸
○ В. Ма	chine learning
○ C. Da	ta mining
O D. No	ne
. Which o	of the following deep learning models uses back propagation
O A. Co	nvolutional Neural Network
○ B. Mu	Iltilayer Perceptron Network
OC. Red	current Neural Network 🗸
O D. All	of the above 🗙
. Which one	of the following steps can be taken to prevent overfitting in a twork?
O A. Dro	opout of neurons

Deep Learning - Ai Quiz Questions
■ D. All of the above ✓
7. Neural networks can be used in-
○ A. Regression problems
O B. Classification problems
○ C. Clustering problems
8. In a classification problem, which of the following activation function is most widely used in the output layer of neural networks?
● A. Sigmoid function
○ B. Hyperbolic function
○ C. Rectifier function
○ D. All of the above
9. Which of the following is a deep learning library?
○ A. Tensorflow
○ B. Keras
○ C. PyTorch
■ D. All of the above ✓
10. Which of the following is true about bias?
○ A. Bias is inherent in any predictive model
○ B. Bias impacts the output of the neurons
○ C. Both A and B ✓
O D. None
11. What is the purpose of a loss function?
○ A. Calculate the error value of the forward network
\bigcirc B. Optimize the error values according to the error rate
○ C. Both A and B ✓
○ D. None

12. Which of the following is a loss function?

 \bigcirc A. Sigmoid function

● B. Cross entropy

 \bigcirc C. ReLu

O. All of the above 13. Which of the following loss function is used in regression? ○ A. Logarithmic loss ○ B. Cross entropy ○ C. Mean squared error
 ✓ OD. None 14. Suppose you have a dataset from where you have to predict three classes. Then which of the following configuration you should use in the output layer? ○ A. Activation function = softmax, loss function = cross entropy O B. Activation function = sigmoid, loss function = cross entropy ○ C. Activation function = softmax, loss function = mean squared error O D. Activation function = sigmoid, loss function = mean squared error 15. What is gradient descent? ○ A. Activation function O B. Loss function ● C. Optimization algorithm O D. None 16. What does a gradient descent algorithm do? ○ A. Tries to find the parameters of a model that minimizes the cost function O B. Adjusts the weights at the input layers ○ C. Both A and B OD. None 17. Which of the following activation function can not be used in the output layer of an image classification model? A. ReLu OB. Softmax OC. Sigmoid OD. None

18. For a binary classification problem, which of the following activation

function is used?

O A. ReLu

○ B. Sof	tmax
○ C. Sig	moid ✔
○ D. No	ne
19. Which	of the following makes a neural network non-linear?
O A. Cor	nvolution function
○ B. Bat	ch gradient descent
○ C. Rec	ctified linear unit 🗸
O D. All	of the above
20. In a ne	eural network, which of the following causes the loss not to
○ A. Stu	ck at a local minima
○ B. Hig	h regularization parameter
○ C. Slo	w learning rate
OD. All	of the above ✓
24 =	
algorithm	image classification task, which of the following deep learning is best suited? current Neural Network
○ A. Rec	is best suited?
○ A. Red	is best suited?
○ A. Rec ○ B. Mu ● C. Cor	is best suited? current Neural Network Iti-Layer Perceptron
A. Reconstruction A. Reconstruction B. Mu C. Coronstruction C. Coronstruction D. All	is best suited? current Neural Network Iti-Layer Perceptron nvolution Neural Network of the above se the number of nodes in the input layer is 5 and the hidden
algorithm ○ A. Rec ○ B. Mu ○ C. Cor ○ D. All 22. Support layer is 10 the hidden	is best suited? Current Neural Network Iti-Layer Perceptron nvolution Neural Network of the above se the number of nodes in the input layer is 5 and the hidden The maximum number of connections from the input layer to
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<u>Λ</u>	
O A	. Convolution -> max pooling -> flattening -> full connection ✔
○ B.	Max pooling -> convolution -> flattening -> full connection
O C.	Flattening -> max pooling -> convolution -> full connection
\bigcirc D	. None
25. Co	nvolutional Neural Network is used in-
O A	Image classification
○ В.	Text classification
O C.	Computer vision
O	. All of the above ✓
26. WI	nich of the following neural network model has a shared weight ure?
O A	. Recurrent Neural Network
○ B.	Convolution Neural Network
○ C.	Both A and B ✓
\bigcirc D	. None
27. LS	ΓM is a variation of-
O A	. Convolutional Neural Network
B.	Recurrent Neural Network ✓
O C.	Multi Layer Perceptron Network
\bigcirc D	. None
	nich of the following neural networks is the best for machine ation?
O A	. 1D Convolutional Neural Network
○ В.	2D Convolutional Neural Network
○ C.	Recurrent Neural Network ✓
\bigcirc D	. None
29. WI	nich of the following neural networks has a memory?
O A	. 1D CNN
○ B.	2D CNN
○ C.	LSTM ✓

30. Batch normalization helps to preventA. activation functions to become too high or low
B. the training speed to become too slow
C. Both A and B ✓
D. None



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