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Week 11 : Assignment 11

The due date for submitting this assignment has passed.

Due on 2023-04-12, 23:59 IST.

Assignment submitted on 2023-04-12, 20:52 IST

1) What is the backpropagation algorithm? ***1 point***

- ○ It is another name given to the curvy function in the perceptron
- ○ It is the transmission of error back through the network to adjust the inputs
- ◉ It is the transmission of error back through the network to allow weights to be adjusted so that the network can learn
- ○ None of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
It is the transmission of error back through the network to allow weights to be adjusted so that the network can learn

2) Which of the following defines neural networks? ***1 point***

- ☑ Complex linear functions with many parameters
- ☑ Complex nonlinear functions with many parameters
- ☑ Complex discrete functions with many parameters
- ☐ None of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
Complex linear functions with many parameters
Complex nonlinear functions with many parameters

Complex discrete functions with many parameters

3) Which of the following can be an application of neural network? ***1 point***

- [x] Sales forecasting
- [x] Fact checking
- [x] Risk analysis
- [ ] None of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
Sales forecasting
Fact checking
Risk analysis

4) Which of the following is true about multilayer feedforward neural networks? ***1 point***

- ( ) Not fully connected
- ( ) Same transfer or activation function in each layer
- ( ) Only one hidden layer is allowed
- (•) None of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
None of the above

5) Which of the following does not happen in the backpropagation algorithm? ***1 point***

- ( ) Error in output is propagated backwards to update weight values
- ( ) Error in output is propagated backwards to update bias values
- ( ) Backpropagation is done iteratively for many epochs
- (•) None of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
None of the above

6) Which of the following is not true about multilayer feedforward neural networks? ***1 point***

- ( ) Consists of three main types of layers
- ( ) Input layer typically has input nodes equal to the number of input features
- (•) Hidden layers are allowed a fixed number of nodes only
- ( ) None of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
Hidden layers are allowed a fixed number of nodes only

7) Which of the following is the most commonly used neural network architecture among feedforward networks? ***1 point***

- (●) Multi layer perceptron
- ( ) Perceptron
- ( ) Radial basis function network
- ( ) None of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
Multi layer perceptron

8) For which of the following neural networks, information does not move only in one direction? ***1 point***

- ( ) Multi layer perceptron
- ( ) Feedforward network
- (●) Recurrent neural network
- ( ) None of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
Recurrent neural network

9) Which of the following is the recommended data normalization in neural networks? ***1 point***

- ( ) Z-score normalization or standardization
- (●) Min-max normalization
- ( ) Both of them
- ( ) None of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
Min-max normalization

10) What is the transfer function? ***1 point***

- ( ) It is used to add noise in the feedforward neural networks
- ( ) It is the transmission of error back through the network to adjust the inputs
- (●) It is applied on the weighted sum of incoming values to produce the outgoing values for a layer
- ( ) None of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
It is applied on the weighted sum of incoming values to produce the outgoing values for a layer