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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Business analytics and data mining
Modeling using R (course)



Course outline

How does an NPTEL online course work? ()

Week 0 ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

Week 10 ()

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

Week 11 ()

● Lecture 51
LOGISTIC
REGRESSION
PART-6 (unit?
unit=91&lesson=92)

● Lecture 52
LOGISTIC
REGRESSION
PART-7 (unit?
unit=91&lesson=93)

● Lecture 53
ARTIFICIAL
NEURAL
NETWORKS
(unit?
unit=91&lesson=94)

● Lecture 54
ARTIFICIAL
NEURAL
NETWORK
PART-2 (unit?
unit=91&lesson=95)

● Lecture 55
ARTIFICIAL
NEURAL
NETWORK
PART-3 (unit?
unit=91&lesson=96)

● **Quiz: Week 11
: Assignment
11
(assessment?
name=135)**

○ Solution for
week 11 :
Assignment 11
(unit?
unit=91&lesson=97)

Week 12 ()

**Download
Videos ()**

**Weekly
Feedback ()**

**Text
Transcripts ()**

Complex discrete functions with many parameters

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

1 point

- ☒ Sales forecasting
☒ Fact checking
☒ 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

