20210523_Batch_CO8182B_CSE7221c_ROTe

You have appeared the test on 2021-05-23

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Your Marks

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MCQ's

1. State True or False:

   Adding hidden layers in ANN helps in describing non-linearity in data.

   - (•) True Your Answer
   - ( ) False

2. The issues of adding more number of hidden layers in an Artificial neural networks are

   - [x] Weights do not get updated due to vanishing gradients
   - [ ] Weights increase exponentially due to vanishing gradients Your Answer
   - [x] Problem of over fitting to a saddle point Your Answer
   - [ ] Problem of underfitting

3. Building layers using auto encoders and adding the target at the end is a

   - ( ) Supervised approach
   - ( ) Unsupervised approach Your Answer
   - (•) Semisupervised approach

4. Auto-Encoders come under supervised learning methods

   - ( ) True
   - (•) False Your Answer

5. Which of the following are the issues with deep networks?

   - [x] Overfitting Your Answer
   - [ ] Inability to learn non-linear functions
   - [x] Vanishing gradients Your Answer

6. Why does vanishing gradient problem exist in an artificial neural network?

   - [x] Backpropagation computes gradient by chain rule Your Answer
   - [ ] There are too many weights to calculate
   - [x] Use of activation functions like sigmoid and tanh Your Answer

7. Mark which of the following are hyper parameters of ANN.

   - [x] Learning Rate Your Answer
   - [x] Number of layers
   - [x] Number of nodes per layer

8. MLP is able to model non-linear distibutions because:

   - ( ) It is similar to linear or logistic models
   - ( ) It uses gradient descent for optimization Your Answer
   - (•) Its ability to represent a non-linear function as piecewise linear function
   - ( ) None of the above

9. What are the primary advantage(s) of deep networks over shallow networks?

   - [x] Learn hierarchy of features Your Answer
   - [x] Learn complex functions with less parameters Your Answer
   - [ ] Learn representations in fewer epochs

10. Map the following correctly:

    _____ : Transforming an unstructured data into a meaningful numeric vector

    _____ : Transforming a meaningful numeric vector into an unstructured data

    - (•) Encoding, Decoding
    - ( ) Decoding, Encoding Your Answer