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MCQ's

1 2 3 4 5 6 7 8 9 10

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

- ☒ Backpropagation computes gradient by chain rule
- ☐ There are too many weights to calculate
- ☒ Use of activation functions like sigmoid and tanh

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MCQ's

1 2 3 4 5 6 7 8 9 10

2 MLP is able to model non-linear distributions because:

1 mark(s)

- ☐ It is similar to linear or logistic models
- ☒ It uses gradient descent for optimization
- ☐ Its ability to represent a non-linear function as piecewise linear function
- ☐ None of the above

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MCQ's

1 2 3 4 5 6 7 8 9 10

3 State True or False:

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

- ☒ True
- ☐ False

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MCQ's

1 2 3 4 5 6 7 8 9 10

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

1 mark(s)

- ☐ Weights do not get updated due to vanishing gradients
- ☒ Weights increase exponentially due to vanishing gradients
- ☒ Problem of over fitting to a saddle point
- ☐ Problem of underfitting

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MCQ's

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

1 mark(s)

- ☐ Supervised approach
- ☒ Unsupervised approach
- ☐ Semisupervised approach

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6 Auto-Encoders come under supervised learning methods

1 mark(s)

- ☐ True
- ☒ False

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MCQ's

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7 Map the following correctly:

1 mark(s)

_____ : Transforming an unstructured data into a meaningful numeric vector
_____ : Transforming a meaningful numeric vector into an unstructured data

- ☐ Encoding, Decoding
- ☒ Decoding, Encoding

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MCQ's

12345678910

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Which of the following are the issues with deep networks?

2 mark(s)

☒ Overfitting

☐ Inability to learn non-linear functions

☒ Vanishing gradients

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Mark which of the following are hyper parameters of ANN.

3 mark(s)

☒ Learning Rate

☐ Number of layers

☐ Number of nodes per layer

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

1 mark(s)

☒ Learn hierarchy of features

☒ Learn complex functions with less parameters

☐ Learn representations in fewer epochs

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