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EN.605.649.82.FA20 Introduction to Machine Learning

Course Modules Module 11: Deep Learning

Submission: Quiz 09-11

Review Test Submission: Quiz 09-11

| User | BRIAN THOMAS LOUGHRAN |
|----------------------|---|
| Course | EN.605.649.82.FA20 Introduction to Machine Learning |
| Test | Quiz 09-11 |
| Started | 11/13/20 5:04 PM |
| Submitted | 11/13/20 5:33 PM |
| Due Date | 11/14/20 11:59 PM |
| Status | Completed |
| Attempt Score | Grade not available. |
| Time Elapsed | 28 minutes out of 30 minutes |
| Instructions | Ten multiple choice or true/false questions will be presented on material from Module 11 and 12 in the course. Please complete the quiz in the time allotted. To best evaluate your understanding, you should try to complete the quiz without using notes or online resources; although, using such resources is permitted if necessary. To encourage this, only 30 minutes will be allotted to complete the quiz. You will have two attempts. |
| Results Displayed | Submitted Answers, Incorrectly Answered Questions |

Question 1 10 out of 10 points



Which of the following networks is not a recurrent neural network?

Selected Answer:

C. Cascade correlation network

Question 2 10 out of 10 points



What is the best way to interpret the weights of a competitive learning network after training finishes?

Selected

Answer:

The weights indicate the probability of a feature being present, given the cluster.

Question 3 0 out of 10 points



What problem needed to be solved so that multi-layer perceptrons could be trained?

Selected Answer: E. The nonlinear optimization problem. **Question 4** 0 out of 10 points



Which of the following methods is able to learn the structure of a deep neural network?

Selected Answer: B. Competitive learning

Question 5 10 out of 10 points



Who is most often credited with inventing backpropagation?

B. Rumelhart, Hinton, and Williams Selected Answer:

Question 6 10 out of 10 points



Which probability distribution is used sample the hidden nodes in a Restricted Boltzmann Machine?

Selected Answer: A. Binomial distribution

Question 7 10 out of 10 points



What is the vanishing gradient problem?

Selected В.

It is the situation that arises when gradients are modified by weights and diffuse Answer:

through the layers.

Question 8 0 out of 10 points



Which probability distribution is used for the energy function in a Restricted Boltzmann Machine?

E. Binomial distribution Selected Answer:

Question 9 10 out of 10 points



What is pretraining in the context of a deep neural network?

Selected

Answer: It is the process whereby the weights of the network are trained layer-wise as a starting

point for backpropagation.

Question 10 10 out of 10 points



Which of the following is an application of an autoencoder?

Selected Answer: C. Signal denoising

Friday, November 13, 2020 5:33:09 PM EST

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