

<u>elp</u>





Module 4 - Restricted Boltzmann

<u>Course</u> > <u>Machines (RBMs)</u>

> Graded Review Questions > Graded Review Questions

Graded Review Questions

Instructions for Graded Review Questions

- 1. Time allowed: Unlimited
- We encourage you to go back and review the materials to find the right answer
- Please remember that the Review Questions are worth 50% of your final mark.
- 2. Attempts per question:
- One attempt For True/False questions
- Two attempts For any question other than True/False
- 3. Check your grades in the course at any time by clicking on the "Progress" tab

Review Question 1

1/1 point (graded)

What is the main application of RBM?

- Data dimensionality reduction
- Feature extraction
- Collaborative filtering
- All of the above

You have used 1 of 2 attempts

Submit

Review Question 2

1/1 point (graded)

How many layers does an RBM (Restricted Boltzmann Machine) have?

Infinte

0 4

2

0 3

All of the above

Submit

You have used 1 of 2 attempts

Review Question 3

1/1 point (graded)

How does an RBM compare to a PCA?

RBM cannot reduce dimensionality

PCA cannot generate original data

PCA is another type of Neural Network

Both can regenerate input data

All of the above

Submit

You have used 1 of 2 attempts

Review Question 4

1/1 point (graded)

Which statement is TRUE about RBM?

- It is a Boltzmann machine, but with no connections between nodes in the same layer
- Each node in the first layer has a bias
- The RBM reconstructs data by making several forward and backward passes between the visible and hidden layers
- At the hidden layer's nodes, X is multiplied by a W (weight matrix) and added to h_bias
- All of the above

Submit

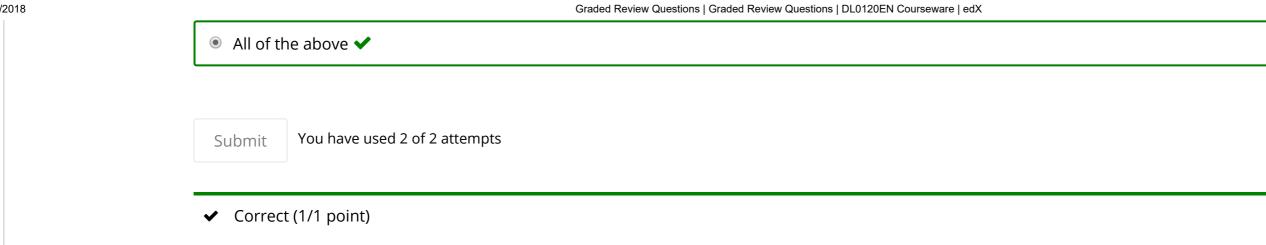
You have used 1 of 2 attempts

Review Question 5

1/1 point (graded)

Which statement is TRUE statement about an RBM?

- The objective function is to maximize the likelihood of our data being drawn from the reconstructed data distribution
- The Negative phase of an RBM decreases the probability of samples generated by the model
- Ontrastive Divergence (CD) is used to approximate the negative phase of an RBM
- The Positive phase of an RBM increases the probability of training data



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