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
- 4
- 2 ✔
- 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
- Contrastive Divergence (CD) is used to approximate the negative phase of an RBM
- The Positive phase of an RBM increases the probability of training data

- ◉ All of the above ✔

Submit You have used 2 of 2 attempts

✔ Correct (1/1 point)