Congratulations! You passed!

TO PASS 80% or higher

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GRADE
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Restricted Boltzmann Machines

LATEST SUBMISSION GRADE
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1. What is the main application of RBM? **1 / 1 point**

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

Correct

2. How many layers does an RBM (Restricted Boltzmann Machine) have? **1 / 1 point**

- ○ 3
- ○ 4
- ◉ 2
- ○ Infinte
- ○ All of the above

Correct

3. How does an RBM compare to a PCA? **1 / 1 point**

- ◉ Both can regenerate input data
- ○ PCA cannot generate original data
- ○ PCA is another type of Neural Network
- ○ RBM cannot reduce dimensionality
- ○ All of the above

Correct

4. Which statement is TRUE about RBM? **1 / 1 point**

- ○ At the hidden layer's nodes, X is multiplied by a W (weight matrix) and added to h_bias.
- ○ 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.
- ○ It is a Boltzmann machine, but with no connections between nodes in the same layer.
- ◉ All of the above

Correct

5. Which statement is TRUE statement about an RBM? **1 / 1 point**

- ○ The Positive phase of an RBM increases the probability of training data.
- ○ 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 objective function is to maximize the likelihood of our data being drawn from the reconstructed data distribution.
- ◉ All of the above

Correct