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Quiz 10

Problem 1

1/1 point (graded)

True or false: Autoencoding is a destructive process, meaning that it is not possible to get an approximation to the original data point given its latent representation.

an approximation to the original data point given its latent representation.
○ True
• False
✓
Submit
Problem 2

1/1 point (graded)

For the k-means autoencoder, what is the hidden representation of the data that we hope to reveal?

The projection for a data point onto a different vector
The location of the mean for the cluster that each data point belongs to

• The cluster label that each data point belongs to

The squared distance from each data point to its mean	
✓	
Submit	
Problem 3	
1/1 point (graded) What is a "one-hot" encoding?	
An encoding that cannot be changed as other encodings depend on it	
An encoding that makes a single pass over the data set	
$\ \ \ \ \ \ \ \ \ \ \ \ \ $	
A trivial encoding where every data point is mapped to the same value	
Submit	
Problem 4	
1/1 point (graded) What kind of relationship between words is captured by co-occurrence probabilities?	
Words with similar frequencies are closely related	
Words of similar length are closely related	

Words which are preceded or succeeded by similar words are closely related
Words with similar spelling are closely related
✓
Submit
Problem 5
1/1 point (graded) In a feedforward neural net, nodes which aren't input nodes or output nodes are called what?
O Hidden units
Middle units
 Floating nodes
 Intermediary nodes
✓
Submit
Problem 6
1/1 point (graded)
True or false: Each layer of the feedforward neural net must be calculated sequentially as the values of any non-input row are calculated from the values of previous rows.
○ True

○ False	
✓	
Submit	
Problem 7	
1/1 point (graded)	
You have a neural network with three fully connected layers, a Approximately how many total edges does this graph have?	each containing 800 nodes.
O 800	
O 2400	
o 1280000	
O 512000000	
✓	
Submit	
Problem 8	
1/1 point (graded)	d l4l-
The loss function for the neural network can best be describe or neither?	u as convex, concave, both,
o convex	
o concave	

○ both
o neither
✓
Submit
Problem 9
/1 point (graded) Which of the following algorithms would be acceptable to use to optimize the loss unction of a very large neural network?
☐ Gradient descent
✓ Stochastic gradient descent
✓ Mini-batch stochastic gradient descent
✓
Submit
Problem 10
/1 point (graded) True or false: Dropout is used with neural networks to reduce the time and space complexity of the model.
○ True
• False



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