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Started on	Friday, May 5, 2023, 1:41 PM
State	Finished
Completed on	Friday, May 5, 2023, 1:54 PM
Time taken	13 mins 1 sec
Points	10.00/10.00
Grade	100.00 out of 100.00
Question 1 Correct	
1.00 points out of 1.00	

Realistic-looking but fake faces are commonly created using

Select one:

- two-faced machine learning.
- oneural architecture search.
- symbolic regression.
- support vector machines.
- generative adversarial networks.
- chained support vector machines.
- of facial recognition systems.

Your answer is correct.

The correct answer is: generative adversarial networks.

Question 2
Correct
1.00 points out of 1.00
Suppose you have a collection of tweets, annotated by whether or not you "liked" them. You want to train a random forest classifier,
using this data, to predict whether or not you will like other tweets. To convert the tweets into the proper format for random forest
training, you might use
Select one:
a bag of words model.
a zero-knowledge proof.
O logistic regression.
a support vector machine.
a generative adversarial network.
O dynamic programming.
alpha beta pruning.
Q-learning.
Your answer is correct.
The correct answer is: a bag of words model.
The correct answer is, a pagior words model.
_
Question 3
Correct
1.00 points out of 1.00
A GPU may be particularly useful for training a
Select one:
orecurrent neural network with a single hidden layer.
■ generative adversarial network for image generation. ✓
O logistic regression model for categorical data.
 support vector machine when the training data is not linearly separable.
nercentron on unusually small data sets

The correct answer is: generative adversarial network for image generation.

Question 4		
Correct		
1.00 points out of 1.00		
In autoencoders, the correct outputs		
Select one:		
 depend on the order in which examples are processed. 		
are produced more quickly than incorrect outputs.		
 are produced automatically, without training. 		
□ are equal to the inputs. ✓		
 are linearly separable. 		
 are standardized without post-processing. 		
Your answer is correct.		
The correct answer is: are equal to the inputs.		
The correct diswer is, and equal to the inputs.		
Question 5		
Correct		
1.00 points out of 1.00		
In an n-gram model		
Select one:		
igorup documents are constructed out of sequences of random vocabulary items, from which n are then selected.		
lacktriangledown the feature vector for each document consists of counts of the occurrences of all vocabulary item sequences of length n .		
\bigcirc documents are converted to feature vectors using ensembles of n -layer neural networks.		
igcup each word is indexed by the sum of the ASCII values of its characters modulo $n.$		
igcup words that share substrings of length at least n will always map to similar feature vectors.		

The correct answer is: the feature vector for each document consists of counts of the occurrences of all vocabulary item sequences of length n.

1.00 points out of 1.00
Because text data is sequential, some natural language processing task are addressed using
Select one: symbolic regression. ordinary least squares. generative adversarial networks. logistic regression. SQL queries. the "no free lunch" theorem. recurrent neural networks. the curse of dimensionality.
Your answer is correct. The correct answer is: recurrent neural networks.
Question 7 Correct 1.00 points out of 1.00
The overall architecture of a genetic adversarial network consists of Select one: a collection of at least three competing adversaries. a collection of at least five competing adversaries. a single perceptron with a large number of inputs. an input layer, a hidden layer with recurrent connections, and a single output node. a generator and a discriminator. an ensemble of decision trees.

Question **6**Correct

The correct answer is: a generator and a discriminator.

Correct
1.00 points out of 1.00
Generative adversarial networks commonly fail to produce satisfactory results because of
Select one:
floating-point overflow.
onon-standardized data.
image saturation.
mode collapse.
the curse of dimensionality.
Your answer is correct.
The correct answer is: mode collapse.
The correct answer is. Mode conapse.
Question 9
Question 7 Correct
1.00 points out of 1.00
1.00 points out of 1.00
In a "bag of words" model
Select one:
owords that share substrings will be treated similarly.
 documents are converted to feature vectors using ensembles of perceptrons.
 bagging and possibly boosting are used to improve generalization.
odocuments are constructed out of words chosen in random order.
 bagging and possibly boosting are used to improve classification accuracy.
 documents are converted to feature vectors using ensembles of support vector machines.
 each word is indexed by the sum of the ASCII values of its characters.

Question $\bf 8$

 $The \ correct \ answer \ is: the \ feature \ vector \ for \ each \ document \ consists \ of \ counts \ of \ the \ occurrences \ of \ all \ vocabulary \ items.$

1.00 points out of 1.00
For which of the following are autoencoders commonly used?
Select one:
regression
 standardization
 clustering
 classification
Your answer is correct.
The correct answer is: dimensionality reduction
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Slides from class ▶

Question **10**Correct