Started on	Sunday, April 2, 2023, 11:24 PM
Started on	Finished
	Sunday, April 2, 2023, 11:31 PM
	6 mins 54 secs
Points	7.00/10.00
Grade	<b>70.00</b> out of 100.00
Question <b>1</b>	
Correct	
1.00 points out of 1.00	
A confusion matr	rix shows
Select one:	
<ul><li>the size of the</li></ul>	he majority supporting each class for all training examples.
	arameter values that produce the highest training error.
	e time vs. accuracy.
<ul><li>the extent to</li></ul>	o which classes are balanced in the training, validation, and testing sets.
	true positives, false negatives, false positives, and true negatives.
Your answer is corre	ect.
The correct answer	is: numbers of true positives, false negatives, false positives, and true negatives.
Question 2	
Correct	
1.00 points out of 1.00	
In a random fores	st model, each tree is trained on all of the training data
In a random fores	st model, each tree is trained on all of the training data
	st model, each tree is trained on all of the training data

The correct answer is 'False'.

Question 3
Correct
1.00 points out of 1.00
The sum of the prediction error and accuracy will always be 1.
Select one:
True   ✓
○ False
The correct answer is 'True'.
Question 4
Correct
1.00 points out of 1.00
Grid search is a method for
Select one:
O gradient descent.
<ul> <li>finding false positives.</li> </ul>
limiting decision tree growth.
<ul> <li>plotting decision boundaries.</li> </ul>
Your answer is correct.
The correct answer is: hyperparameter tuning.

Question 3 Incorrect
0.00 points out of 1.00
The sum of the true positive rate and the false positive rate will always be 1.
Select one:
True       ▼
○ False
The correct answer is 'False'.
Question <b>6</b>
Correct
1.00 points out of 1.00
K-fold cross-validation is used to
Select one:
maximize the true negative rate.
<ul><li>minimize the false negative rate.</li><li>ensure that there will be fewer than k errors.</li></ul>
<ul> <li>estimate performance on unseen data.</li> </ul>
<ul> <li>minimize the false positive rate.</li> </ul>
maximize the true positive rate.
Your answer is correct.

The correct answer is: estimate performance on unseen data.

Question <b>7</b>
Correct
1.00 points out of 1.00
In a random forest model, all features are considered for each decision.
Select one:
○ True
False   ✓
The correct answer is 'False'.
The correct answer is Faise.
Question 8
Question <b>8</b> Correct
Correct
Correct
Correct 1.00 points out of 1.00
Correct 1.00 points out of 1.00  In bagging, individual classifiers are trained on
Correct 1.00 points out of 1.00  In bagging, individual classifiers are trained on  Select one:
Correct  1.00 points out of 1.00  In bagging, individual classifiers are trained on  Select one:  possibly-overlapping subsets of the testing set.
Correct  1.00 points out of 1.00  In bagging, individual classifiers are trained on  Select one:  ○ possibly-overlapping subsets of the testing set.  ○ possibly-overlapping subsets of the training set. ✓
Correct  1.00 points out of 1.00  In bagging, individual classifiers are trained on  Select one:
Correct  1.00 points out of 1.00  In bagging, individual classifiers are trained on  Select one:  possibly-overlapping subsets of the testing set.  possibly-overlapping subsets of the training set. ✓  clusters of training examples determined using the k-means algorithm.  the complete training set, but using different hyperparameters.
Correct  1.00 points out of 1.00  In bagging, individual classifiers are trained on  Select one:

Your answer is correct.

The correct answer is: possibly-overlapping subsets of the training set.

Question 9 Incorrect
0.00 points out of 1.00
The Euclidian distance between two data points will always be less than or equal to the Manhattan distance.
Select one:
○ True
The correct answer is 'True'.
Question 10
Incorrect
0.00 points out of 1.00
An advantage of the k-nearest-neighbors model is that
Select one:
O (No other answers here are correct.)
decision boundaries are guaranteed to be linear.
only k data points are required for training.
training is fast.
<ul> <li>all but k data points may be discarded after training.</li> </ul>
Your answer is incorrect.
The correct answer is: training is fast.
4 Code from the complete
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