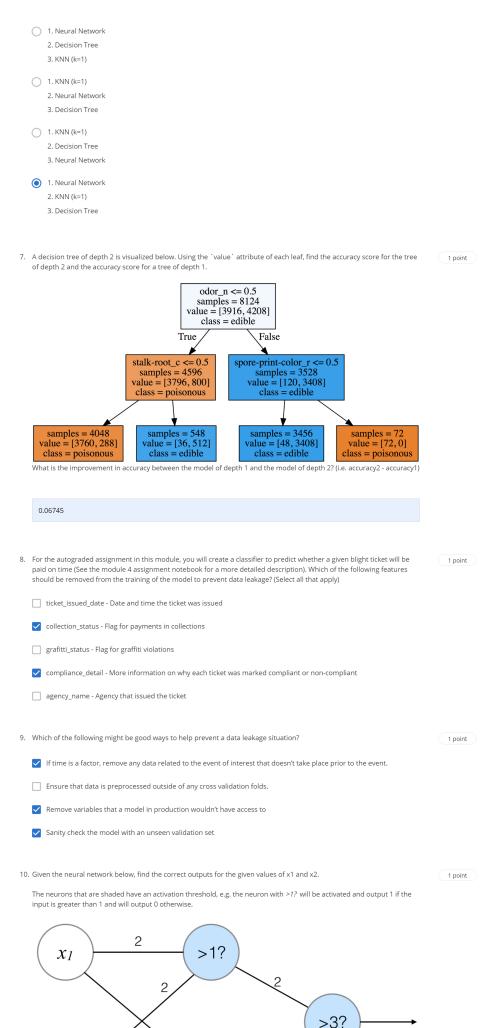
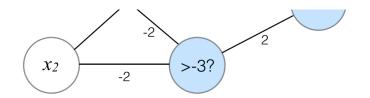


Module 4 Quiz

TOTAL POINTS 10

١.	which of the following is an example of clustering?	1 point
	Separate the data into distinct groups by similarity	
	O Compress elongated clouds of data into more spherical representations	
	Accumulate data into groups based on labels	
	Creating a new representation of the data with fewer features	
2	18/h; h of she fellowing and advantage of a visit of the state of the	
۷.	Which of the following are advantages to using decision trees over other models? (Select all that apply)	1 point
	Trees are naturally resistant to overfitting	
	Decision trees can learn complex statistical models using a variety of kernel functions	
	✓ Trees often require less preprocessing of data	
	Trees are easy to interpret and visualize	
3.	What is the main reason that each tree of a random forest only looks at a random subset of the features when building each node?	1 point
	To increase interpretability of the model	
	To improve generalization by reducing correlation among the trees and making the model more robust to bias.	
	O To reduce the computational complexity associated with training each of the trees needed for the random forest.	
	O To learn which features are not strong predictors	
4.	Which of the following supervised machine learning methods are greatly affected by feature scaling? (Select all that apply)	1 point
	Naive Bayes	
	✓ Support Vector Machines	
	Neural Networks	
	✓ KNN	
	Decision Trees	
5.	Select which of the following statements are true.	1 point
	For a fitted model that doesn't take up a lot of memory, KNN would be a better choice than logistic regression .	
	For having an audience interpret the fitted model, a support vector machine would be a better choice than a decision tree .	
	For a model that won't overfit a training set, Naive Bayes would be a better choice than a decision tree .	
	For predicting future sales of a clothing line, Linear regression would be a better choice than a decision tree regressor.	
6.	Match each of the prediction probabilities decision boundaries visualized below with the model that created them.	1 point
		1 point
	-10 -5 0 5 10 -10 -5 0 5 10 -10 -5 0 5 10	





C

x1	x2	output
0	0	0
0	1	0
1	0	0
1	1	1

0

x1	x2	output
0	0	0
0	1	1
1	0	1
1	1	1

•

x1	x2	output
0	0	0
0	1	1
1	0	1
1	1	0

0

x1	x2	output
0	0	1
0	1	0
1	0	0
1	1	1

I, THOMAS JOHN JAMES, understand that submitting another's work as my own can result in zero credit for this assignment. Repeated violations of the Coursera Honor Code may result in removal from this course or deactivation of my Coursera account.



Learn more about Coursera's Honor Code

Save

Submit