

DM-Quiz-2020-Q7

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- Decision Tree Decision Boundaries
 - A are a step-wise constant function
 - **B** I do not know
 - c continuous function
 - D are axis-parallel rectangles
- **2.** Root Node has
 - A no incoming edges and zero or more outgoing edges
 - B one incoming edge and two or more outgoing edges
 - c one incoming edge and no outgoing edges
 - I do not know
- **3.** Pruning the tree means
 - A Simplify the tree
 - B Split the tree's nodes
 - c Merge the tree's nodes
 - D I do not know
- X 4. Gini index equals to
 - **A** 1 sum (pi²)
 - **B** 1 + sum (pi²)
 - c sum(pi * log(pi))
 - D -sum(pi * log(pi))
 - E I do not know

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X	5.	Entropy starts with 0
	Α	True
	В	False
	C	I do not know
X	6.	Overall impurity measure can be obtained by
	Α	a weighted average of individual rectangles
	В	majority voting
	С	I do not know
X	7.	At each stage, we choose the split with
	Α	the lowest Gini index
	В	the lowest Chi-square value
	C	the highest entropy
	D	I do not know
X	8.	We can perform the Decision Trees in r using
	Α	rpart()
	В	decisiontree()
	C	destree()
	D	reg.tree()
	E	I do not know
X	9.	minsplit in R means
	A	the minimum number of observations that must exist in a node in order for a split to be attempted
	В	the minimum number of observations in any terminal node
	C	the minimum number of splits
	D	I do not know

×	10.	Bagging is a technique used to reduce
	Α	the variance of our predictions
	В	the bias of our predictions
	C	both
	D	I do not know
X	11.	Bootstrap aggregation allows sampling
	Α	with replacement
	В	without replacement
	C	I do not know
	D	both
X	12.	How can Ensemble methods be constructed?
	Α	By manipulating the training set
	В	By manipulating the input features
	C	By manipulating the class labels
	D	By manipulating the learning algorithm
	E	All of them
	F	None
	G	I do not know
X	13.	Repeatedly sampling observations are taken
	A	from general population
	В	original sample data set
	C	I do not know
	D	None
X	14.	Random Forest differs from bagging
	Α	by a random sample of m predictors
	В	by bootstrapped training samples
	C	by adaptive sampling
	D	I do not know

×	15.	Boosting differs from bagging
	Α	by a random sample of m predictors
	В	by bootstrapped training samples
	C	by adaptive sampling
	D	I do not know
X	16.	Averaging many highly correlated quantities
	A	lead to as large of a reduction in variance
	В	does not lead to as large of a reduction in variance
	C	lead to as large of a reduction in bias
	D	I do not know
X	17.	We can perform a Random forest in R using the function
	Α	randomForest()
	В	rf()
	C	randomF()
	D	boot()
	E	I do not know
X	18.	Random Forest works
	A	for classification
	В	for regression
	C	both
	D	I do not know