Ocngratulations! You passed!

Grade Latest Submission received 94.44% Grade 94.44%

To pass 80% or higher

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1.	A data professional uses tree-based learning for an operations project. Currently, they are interested in the nodes at which the trees split. What type of nodes do they examine? O Branch	1/1 point
	Decision Leaf Root Correct	
2.	What are some benefits of decision trees? Select all that apply.	1/1 point
	 Decision trees enable data professionals to make predictions about future events based on currently available information. Correct 	
	When working with decision trees, overfitting is unlikely. Decision trees require no assumptions regarding the distribution of underlying data.	
	Correct When preparing data to train a decision tree, very little preprocessing is required. Correct	
3.	In a decision tree, what type(s) of nodes can decision nodes point to? Select all that apply. Root node Decision node	1/1 point
	⊙ Correct □ Split	
	☑ Leaf node ② Correct	
4.	In a decision tree model, which hyperparameter sets the threshold below which nodes become leaves? Min child weight Min samples leaf Min samples split	1/1 point
	 Min samples tree ⊘ Correct 	
5.	What process uses different "folds" (portions) of the data to train and evaluate a model across several iterations? Model validation Cross validation Grid search Proportional verification	1/1 point
	⊙ Correct	
6.	Which of the following statements correctly describe ensemble learning? Select all that apply. If a base learner's prediction is equally effective as a random guess, it is a strong learner. Ensemble learning involves building multiple models. Ocorrect	1/1 point
	It's possible to use the same methodology for each contributing model, as long as there are numerous base learners.	
	 ⊙ Correct It's possible to use very different methodologies for each contributing model. 	
	⊙ Correct	
7.	Fill in the blank: Each base learner in a random forest model has different combinations of features available to it, which helps prevent correlated errors among in the ensemble. splits nodes roots learners	1/1 point
	⊙ Correct	
8.	What are some benefits of boosting? Select all that apply. Boosting can improve model accuracy. Correct	1/1 point
	Because no single tree weighs too heavily in the ensemble, boosting reduces the problem of high variance. Orrect	
	☐ The models used in boosting can be trained in parallel across many different servers.	

