## Congratulations! You passed!

Grade received 100% To pass 80% or higher

Go to next item

1.	Fill in the blank: The supervised learning technique boosting builds an ensemble of weak learners, then aggregates their predictions.	1/1 point
	O randomly	
	O repeatedly	
	sequentially	
	○ in parallel	
	<ul> <li>Correct         The supervised learning technique boosting builds an ensemble of weak learners sequentially, then aggregates their predictions.     </li> </ul>	
2.	When using a gradient boosting machine (GBM) modeling technique, which term describes a model's ability to predict new values that fall outside of the range of values in the training data?	1/1 point
	O Learning rate	
	○ Grid search	
	Extrapolation	
	○ Cross validation	
	○ Correct When using a gradient boosting machine (GBM) modeling technique, extrapolation describes a model's ability to predict new values that fall outside of the range of values in the training data.	
3.	When using the hyperparameter min_child_weight, a tree will not split a node if it results in any child node with less weight than what is specified. What happens to the node instead?	1/1 point
	O It gets deleted.	
	O It becomes a root.	
	It becomes a leaf	
	O It duplicates itself to become another node.	
	Correct When using the hyperparameter min child weight, a tree will not split a node if it results in any child node with less weight than what is specified. Instead, the node becomes a leaf.	