←	Back Practice Assign	nment • 10 min		
	⊕ English	·		
Yo	our grade: 10	0%		
	r latest: 80% • Your high	nest: 100% 6. We keep your highest score.		
		and help four ingredients.		
	Next item →			
1.	What is the primary p	purpose of logistic regression in machine learning?	1/1 point	
	○ Create linear regression models			
	O Predict continuo	O Predict continuous values		
	Reduce the dimensionality of data			
	Classify based on the predicted probability of an observation belonging to one of two classes			
	Correct Logistic regressprobability	sion predicts the probability of an observation belonging to one of two classes, such as true or false, and assigns the class using a threshold		
า	What kind of outcom	or does logistic regression prodict?	1/1 point	
۷.				
	Only numerical values Random outcomes without a clear pattern			
	Multiple classes simultaneously			
	Binary classification			
	⊘ Correct	sion predicts the probability that observations belong to one of two classes, such as true or false, and classifies it using a threshold		
3.	Which parameter is u	used in logistic regression to determine the class of an observation?	1/1 point	
	○ Linear regression			
	Mean of all observations			
	Threshold probability			
	Highest numerical value			
	○ Correct Logistic regress	sion assigns classes based on a threshold probability to differentiate between the two classes.		
4.	What is the primary o	objective of the logistic regression training process?	1 point	
	Create multiple	decision boundaries for classification		
	Randomly select parameters without any training			
	Minimize the cost function, or log-loss			
	Achieve the highest possible accuracy in all classes			
	⊗ Incorrect While accuracy	r is important in ensuring quality, it isn't the primary objective of the logistic regression training process.		
	A data scientist is usi step to improve the r	ng logistic regression to predict customer churn. After evaluating the model, they notice a high log-loss value. What is the most appropriate first model?	1/1 point	
	O Feature selection	Feature selection		
	○ More data			
	Parameter tuning			
	O Use a different a	ctivation function		
	⊘ Correct			

Practice Quiz: Logistic Regression