Knowledge check

3 minutes

Check your knowledge

1. What is the	e difference between supervised learning and unsupervised learning?
0	Supervised learning requires human supervision, while unsupervised learning doesn't
0	Supervised learning always uses an optimizer, but unsupervised never does
•	Supervised learning trains a model by comparing estimations to correct answers. The cost function for unsupervised learning doesn't need correct answers
	Correct.
2. What is the	e role of the cost function in supervised learning?
0	To maximize the cost so that the objective is reached.
(To calculate cost by comparing estimations to correct answers.
	Correct.
0	To update model parameters.
3. How does	gradient descent know how to update parameters?
0	It compares costs for several combinations of parameters, and then selects the best option
0	It uses an internal understanding of the relationship between features and labels to make intelligent choices
	reatares and lasels to make intempent energes

4. Why are there many cost functions available?

parameters smaller or larger.

0	A unique cost function is required for each processed currency or banking system	
0	Because cost functions help models process data, and many model types are available	
•	Because different cost functions can arrive at different answers, and	~
	what is best depends on our goal.	

Correct.

- **5.** Why is learning rate important?
 - O It speeds up or slows down training
 - O If too large or too small, it can prevent a model from being trained optimally
 - Both options are correct

Correct.

Next unit: Summary

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