Kahoot! DL Lecture Quiz 2 (2021)

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Questions (10)

1 - Quiz

Logistic Regression (with linear basis functions) is a ...

20 sec

linear regression method

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X

linear classification method

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non-linear regression method

non-linear classification method

X

2 - Quiz

How is the logistic sigmoid function defined?

20 sec

 $f(x) = 1/(1 + e^x)$

X

 $f(x) = 1/(1 + e^{-x})$

/

 $f(x) = e^x / (1 + e^x)$

/

 $f(x)=e^{-x}/(1+e^{-x})$

3 - Quiz In Logistic regression, where does a point have to lie to have a probability of 1 of belonging to class 1?	20 sec
Infinitely far away from the decision boundary on the side of class 1	✓
On the decision boundary	×
1 unit away from the decision boundary on the side of class 1	×
At the origin	×
4 - Quiz Which of the following gives the tightest bound on the time complexity of multiplying an $m \times n$ with an $n \times p$ matrix?	30 sec
O(m * n * p)	✓
O(m*n+n*p)	×
O(m * n ² * p)	×
O(max(m * n , n * p))	×
5 - Quiz Which of the following gives the tightest bound on the memory complexity of multiplying an m x n with an n x p matrix:	20 sec
O(m * n * p)	×
O(m*n+n*p+m*p)	~
O(m * n ² * p)	×
O(max(m * n , n * p, m * p))	✓

6 - Quiz Which of the following activation functions is strictly positive?		20 sec
	relu	X
•	logistic sigmoid	✓
	linear	×
	tanh	×
7 - Qui	iz t relationship exists between the cross-entropy loss (CE) and accuracy (AC)	30 sec
	lower CE implies higher AC	×
•	AC = 100% implies CE = 0	×
	higher CE implies higher AC	×
	CE = 0 implies AC = 100%	✓
8 - Quiz The minimum number of hidden layers needed to approximate an arbitrary non- linear bounded and continuous function is: 20 sec		
	1	✓
•	0	×
	Depends on the function	X
	2	×

9 - Quiz Given the following matrices: A is m x n; B is n x p; C is m x 1. We can:	30 sec
Add A and C mathematically	×
Add B and C mathematically	×
Add A and C in numpy	✓
Add B and C in numpy	×
10 - Quiz A is m x n x p x q; B is m x n; C is p x q. Which of these operations are valid in numpy (will not raise an exception)?	60 sec
A + B	×
▶ B*A	×
A + C	✓
C*A	~