

0 favorites 1 play 1 player

A private kahoot

Questions (8)

1 - Quiz If $y = g(x)$ then $\partial f(y)/\partial x$ is	30 sec
$\partial f(y)/\partial y * \partial g(x)/\partial x$	✓
undefined	×
$\partial f(y)/\partial g(x)$	X
0	×
2 - Quiz For a function f(x) from R ^m -> R ⁿ , the dimensionality of the Jacobian is:	20 sec
nxm	~
mxn	×
mxm	×
nxn	×

3 - Quiz The ReLU activation is:		30 sec
	Differentiable everywhere and discontinuous at 0	×
•	Continuous everywhere and non-differentiable at 0	✓
	Differentiable and discontinuous everywhere	×
	Differentiable and continuous everywhere	×
4 - Quiz Gradient of loss w.r.t. a single neuron's activation having n incoming connections and m outgoing connections is:		20 sec
	A matrix of dimension m x n	×
•	A matrix of dimension n x m	×
	A vector of dimension n x 1	×
	A scalar	✓
5 - Quiz Gradient of loss w.r.t. all neurons' weights in a layer with k neurons and n incoming connections/neuron is:		20 sec
	A vector of dimension n x 1	×
•	A matrix of dimension n x k	✓
	A vector of dimension k x 1	×
	A scalar	×

	time complexity of the forward pass in MLP with M layers (k units each) with h size B & dimensionality k is:	30 sec
	O(B * k²)	×
•	O(B * k)	×
	O(M * B * k ²)	✓
	O(M * B * k)	×
	time complexity of the backward pass in MLP with M layers (k units each) with h size B & dimensionality k is:	20 sec
	O(M * B ² * k)	×
•	O(max(M * B * k², M * B² * k))	×
	O(M * B * k ²)	✓
	O(M * B * k)	×
The	8 - Quiz The memory complexity of training an MLP with M layers (k units each) with batch size B & dimensionality k is:	
	O(B * k + M * k²)	×
•	O(M * B * k ²)	×
	O(M * B * k + M * k ²)	✓
	$O(B * k + k^2)$	×