

Kahoot!

DL Lecture Quiz 1 (2021)

0 favorites

1 play

1 player

A private kahoot

Questions (10)

1 - Quiz

Which fields have been revolutionized by Deep Learning?





30 sec

- | | | |
|--|---------------------|---|
|  | Computer Vision | ✓ |
|  | AI Planning | ✗ |
|  | Language Processing | ✓ |
|  | Game Playing | ✓ |

2 - Quiz

Why is it comparably easy to get started in Deep Learning?





20 sec

- | | | |
|--|--|---|
|  | The underlying concepts are trivial | ✗ |
|  | There are very well-engineered libraries | ✓ |
|  | Stochastic gradient descent always works | ✗ |
|  | Deep learning works like the brain | ✗ |

3 - Quiz

What is the main contribution of deep neural networks compared to traditional machine learning algorithms?

20 sec

-  It is better at every task ✗
-  Automatic representation learning compared to manual design ✓
-  It is conceptually simpler ✗
-  Mimicking the interaction and complexity of neurons in brains ✗

4 - True or false

Are deep networks always better than shallow networks?


10 sec

-  True ✗
-  False ✓

5 - Quiz

In order to learn a function $R^m \rightarrow R^n$, how many neurons should be in the output layer of a neural network for regression?





20 sec

-  m ✗
-  n ✓
-  $m + n$ ✗
-  $m * n$ ✗

6 - Quiz

Which of the following can Deep Learning be used for?





20 sec

-  Only Classification ✗
-  Only Regression ✗
-  Neither Classification nor Regression ✗
-  Classification and Regression ✓

7 - Quiz

Which of the following reinvigorated Neural Networks most recently (mid-2000 onwards)?

20 sec

-  Invention of convolutional neural networks ✗
-  Training large networks with large amounts of data ✓
-  Training shallower networks ✗
-  Training on smartphones ✗

8 - Quiz

An $m \times n$ matrix is multiplied by an $n \times p$ matrix. What is the dimensionality of the resulting matrix?

20 sec

-  $p \times n$ ✗
-  $n \times n$ ✗
-  $m \times p$ ✓
-  $m \times n$ ✗

9 - Quiz

Which operation performs element-wise multiplication in numpy?

20 sec

- | | | |
|--|-----------------------------|---|
|  | + |  |
|  | * |  |
|  | <code>numpy.dot()</code> |  |
|  | <code>numpy.matmul()</code> |  |

10 - Quiz

POLL (no points to win/lose): Is there any background you are missing and should "brush up" on?

30 sec

- | | | |
|--|-------------------------|---|
|  | Yes, programming skills |  |
|  | Yes, machine learning |  |
|  | Yes, linear algebra |  |
|  | No |  |