

QUIZ • 1H

Data Features Summative Quiz

Congratulations! You passed!

TO PASS 80% or higher

Keep Learning

GRADE

100%

1. Question 1

Modern deep neural networks work well because:

1 / 1 point



They can scale up to very large amounts of data



They use input data that is in a very sophisticated, high level, feature representation.



They are based on clear, logical rules that are designed based on expert knowledge



They use very complex, sophisticated algorithms

Correct

Yes, each neuron is quite simple, but you can combine a lot of them to handle a lot of data. In general, machine learning works best if you have a lot of data

2. Question 2

What is the output of a regression?

1 / 1 point



A picture



One of a set of categories



A reward or punishment



One or more numbers

Correct

Yes, regression outputs numbers

3. Question 3

The feature representation you use has no effect in k-nearest neighbour because it is based on similarity?

1 / 1 point

☐

True

☐

False

Correct

That's right. How you measure similarity is probably the most important aspect of the nearest neighbour method, and that will depend a lot on which features you are using

4. Question 4

Which of these is true?

1 / 1 point

☐

If you are using high level features you will need more training data than if you are using low level features

☐

If you are using low level features you will need more training data than if you are using high level features

☐

The features do not affect how much data you need

Correct

Yes, it is easier to learn using high level features, which means you will need less data to learn a particular concept

5. Question 5

Which do you typically think need more disc space?

1 / 1 point

☐

High level features

☐

Low level features

Correct

That's right, high level features typically encode smaller, more meaning full information, like words. Low level features typically encode the raw data, like audio samples or pixel, which can