## Congratulations! You passed!

TO PASS 80% or higher

features

Keep Learning

grade 100%

## **Data Features Summative Quiz**

LATEST SUBMISSION GRADE 100%		
1.	Modern deep neural networks work well because:  They use input data that is in a very sophisticated, high level, feature representation.  They use very complex, sophisticated algorithms  They can scale up to very large amounts of data  They are based on clear, logical rules that are designed based on expert knowledge	1/1 point
	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.	What is the output of a regression?  A picture  A reward or punishment  One or more numbers  One of a set of categories	1/1 point
	✓ Correct Yes, regression outputs numbers	
3.	The feature representation you use has no effect in k-nearest neighbour because it is based on similarity?  True  False	1/1 point
	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.	Which of these is true?  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	1/1 point
	Correct Yes, it is easier to learn using high level features, which means you will need less data to learn a particular concept	
5.	Which do you typically think need more disc space?  High level features  Low level features	1/1 point
	✓ 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 take a lot of space. This isn't always the case high level image features created by filters can some times be the same size and the low level.	