

Congratulations! You passed!

Grade received 100% $\,$ To pass 80% or higher

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Week 4 Quiz Total points 9			
1.	What does the acronym ETL stand for?	1/1 point	
	O External / Transform / Load		
	O Extract / Transfer / Load		
	Extract / Transform / Load		
	O Enhance / Transfer / Load		
	⊘ Correct		
2.	You have a multi processor machine, containing a CPU and GPU. How would you typically distribute these for training a model?	1/1 point	
	O Use CPU and GPU for all tasks in parallel		
	O Use CPU for extracting and the GPU for transforming and loading		
	O Use CPU for extracting and loading, and the GPU for transforming		
	Use CPU for extracting, transferring and loading, and the GPU for training		
	⊘ Correct		
3.	One way to speed up ETL is to use a cache. What's the API for this called?	1 / 1 point	
	O tf.data.DataCache()		
	O tf.data.Dataset.ETLCache()		
	tf.data.Dataset.cache()		
	tf.data.Dataset.datacache()		
	⊘ Correct		
4.	<pre>I have a dataset loaded using this code: 1 dataset = tfds.load('cats_vs_dogs',split=tfds.Split.TRAIN)</pre>	1 / 1 point	

How would I cache it on disk?

	train_dataset = dataset.cache(filename='cache')	
	<pre> train_dataset = dataset.cache()</pre>	
	<pre>train_dataset = dataset.cache(file='cache')</pre>	
	<pre>train_dataset = dataset.cache(cachename=file)</pre>	
	⊘ Correct	
5.	I have a dataset loaded using this code:	1/1 point
-	1 dataset = tfds.load('cats_vs_dogs',split=tfds.Split.TRAIN)	1, 1 point
	How would I cache it in memory? O train_dataset = dataset.memorycache()	
	O train_dataset = dataset.cache_in_memory()	
	train_dataset = dataset.cache()	
	<pre>train_dataset = dataset.cache(cachename='memory')</pre>	
	⊘ Correct	
6.	If I create a function called 'augment' that transforms data, what code would I use to apply this after loading a dataset with	1 / 1 point
	1 dataset = tfds.load('cats_vs_dogs',split=tfds.Split.TRAIN)	
	<pre> augmented_dataset = map(augment) </pre>	
	<pre>O augmented_dataset = dataset.augment(dataset)</pre>	
	augmented_dataset = dataset.map(augment)	
	<pre>augmented_dataset = dataset.augment()</pre>	
	⊘ Correct	
7.	If you want to parallelise the transform of a dataset across multiple cores, what's the correct call?	1/1 point
	s = dataset.map(augment, num_parallel=2)	
	s = dataset.map(augment, num_parallel_calls=2)	
	s = dataset.map(augment, 2)	
	s = dataset.map(augment, parallel_calls=2)	
	⊘ Correct	

8.	If you're not sure how many cores are accessible, for example, if you're running in a shared cloud environment, how can you find out how many are available to you?	1/1 point
	<pre>num_cores = multiprocessing.cpu.count()</pre>	
	O It's not possible	
	<pre>num_cores = multiprocessing.available_cpus()</pre>	
	num_cores = multiprocessing.cpu_count()	
	⊘ Correct	
9.	The process of executing a custom map function over a batch of inputs is called:	1/1 point
	○ Map batching	
	O Batch mapping Visualization	
	Vectorization	