▲ Try again once you are ready

	Grade received 79.16% To pass 80% or higher	iry again
	· ·	
	igh-Performance Modeling _{Ial points 6}	
1.	True Or False: In the model parallelism, the models are replicated into different devices (GPU) and trained on data	0 / 1 poi
	True False	
	Incorrect Not quite! In the model parallelism, the process occurs differently. In this way, when the models are too large to fit in a single device, then it can be distributed among many devices.	
2.	Which of the following terminologies are often used in the world of distributed computing? (Select all that apply) Worker	0.75 / 1 poi
	Correct That's right! The term worker is very common and is defined as the accelerator on which some calculations are performed, as in this replica.	
	Mirrored Variable	
	Correct That's right! When you copy the same variables in the model to multiple devices, they are called mirrored variables. Training methodologies keep these variables in sync across various devices.	
	✓ Copy	

Not quite! During the model training, it is necessary to make copies of the model's variables on several devices. This copy in the world of distributed computing is known as a replica.

Device

Correct
That's right! The term device is very commonly used to refer to a CPU or an accelerator like a GPU or TPU on any physical machine which runs machine learning models during different stages of its life cycle.

3. True or False: The pipeline performance can be optimized through parallelizing data extraction and transformation.

1/1 point

True

⊘ Correct

That's right! Parallelizing processes, like data extraction or data transformation or both, is a way to

4. True or False: TensorFlow offers techniques to optimize pipeline performance like prefetching, parallelizing data extraction and transformation, caching and reducing memory. These techniques are available through the sklearn.decomposition API.

False

Correct
 That's correct! The API incorporating prefetching, parallelizing data extraction and transformation, caching and reducing memory is tf.data.

True Or False: As important developments in both model growth and hardware improvement have been made, parallelism becomes an alternative of greater importance.



False Correct That's correct! Even in recent years the size of machine learning models has been increasing, hardware accelerators (like GPUs and TPUs) have also been growing, but at a slower pace. 6. The library uses synchronous mini-batch gradient descent for training in a distributed way. 1/1 point GPipe Scipy Scikit-learn Pandas Correct That's right! This distributed machine learning library allows you to make partition models across different accelerators and automatically splits a mini-batch of training examples into smaller micro-batches in a distributed way.	 ✓ Correct That's correct! Even in recent years the size of machine learning models has been increasing, hardware accelerators (like GPUs and TPUs) have also been growing, but at a slower pace. 6. The library uses synchronous mini-batch gradient descent for training in a distributed way. 1/1 point © GPipe Scipy Scikit-learn Pandas Correct That's right! This distributed machine learning library allows you to make partition models across different accelerators and automatically splits a mini-batch of training examples into smaller micro-batches in a 	₩ 1100	
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