11/7/24, 4:12 PM Quiz: Attempt review

	Started on	Thursday, 7 November 2024, 4:04 PM	
	State	Finished	
Coi	mpleted on	Thursday, 7 November 2024, 4:08 PM	
	Time taken	4 mins 4 secs	
		9.00/10.00	
	Grade	90.00 out of 100.00	
Question 1			
Complete			
Mark 1.00 out of 1.00			
What is the primary purpose of Distributed Data Parallel (DDP) in PyTorch?			
○ a.	a. To ensure that only one GPU is used during training.		
b.	 b. To parallelize model training across multiple GPUs, improving efficiency and speed. 		
○ c.	To reduce the	e number of parameters in the model.	
O d.	To run mode	ls sequentially on multiple GPUs.	
Question 2	2		
Complete			
Mark 1.00 out of 1.00			
In PyTorch's Distributed Data Parallel, what does the "all-reduce" operation achieve?			
a.	Aggregates o	gradients across all GPUs and synchronizes them.	
O b.	Reduces the	learning rate dynamically.	
○ c.	Increases the	batch size automatically.	
O d.	Divides the d	lataset among all GPUs.	

11/7/24, 4:12 PM Quiz: Attempt review Question $\bf 3$ Complete Mark 1.00 out of 1.00 In the Adam optimizer, what is the role of the first moment estimate? a. It tracks the moving average of gradients to help with momentum. b. It adjusts the learning rate based on the gradient's variance. o. It decreases the learning rate over time. od. It reinitializes weights after each iteration. Question 4 Complete Mark 0.00 out of 1.00 What does the rendezvous process facilitate in distributed training? a. Synchronizing model weights across GPUs. b. Saving checkpoints at regular intervals. oc. Setting up the initial connection between multiple nodes. od. Changing the optimizer parameters dynamically Question ${\bf 5}$ Complete Mark 1.00 out of 1.00 Fine-tuning a pre-trained model typically involves: a. Adjusting specific layers or weights for a new task or dataset.

- b. Removing the original layers and adding new ones.
- c. Training the model from scratch on a new dataset.
- d. Only using the original model without any changes.

od. The type of model being used.

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Question	
Complete	
Mark 1.00 d	out of 1.00
Which	of the following is an advantage of using LoRA in fine-tuning large models like GPT-2?
○ a.	It modifies only the bias parameters in each layer.
O b.	It increases the overall model size, improving accuracy.
○ c.	It trains the model from scratch on a large dataset.
d.	It allows for efficient fine-tuning by only adapting low-rank parameters, saving memory and computation.
Question	
Complete	
Mark 1.00 d	out of 1.00
What is	the purpose of saving model snapshots or checkpoints in distributed training?
	To reduce memory usage.
○ a.	to reduce memory usage.
O h	To speed up training on each GPU.
О Б.	to speed up training on each dro.
	To allow resuming training if interrupted.
C.	to allow resuming training it interrupted.

O d. To increase the model's accuracy.