training job to save cost.

•	Training of a custom model with Amazon SageMaker Lecture Notes (Optional)	Week 2 quiz Practice Quiz • 20 min	Go to next item	
	Practice	Review Learning Objectives		
	☐ or Charctice QuinzaWeNk P tyext classifier, you split your data into train, valid	ation, and test datasets. What is the purpose of the validation set?	1/1 point	
	8 questions To train the model Graded App Item: Train a review classifier with BERT and Amazon			
	SageMaker To evaluate and tune the model hyper-parameters used during model. To evaluate model performance after training	Submit your assignment lel training	Try again	
	None of the above			
		Receive grade	Your grade View Feedback	
	✓ Correct That's right! The validation dataset is used to evaluate the model p	To Pass 80% or higher performance during training and can be used to tune the hyper-parameters of the model.	96.88% We keep your highest score	
2.	You decide to use a BERT pre-trained model to train your text classifier. T dataset?	Like	e of model to our reviews 1/1 point	
	O Pre-trained Layers			
	Activation Layers	Activation Layers		
	Classifier Layers			
	O Convolutional Layers			
	Correct Dy adding a new classifier layer on top of the pre-trained model, you can repurpose the vector representations learned in the pre-trained model for your own dataset. The new classifier model should have 2 outputs for your 2			
	Correct! By adding a new classifier layer on top of the pre-trained r classes: positive (1), neutral (0), and negative (-1).	model, you can repurpose the vector representations learned in the pre-trained model for your own dataset. The new classifier model should hav	ve 3 outputs for your 3	
3.	Transfer learning refers to reusing the knowledge learned from one task	ansfer learning refers to reusing the knowledge learned from one task (pre-trained model) for another task.		
Consider this statement: "Fine-tuning is usually faster than pre-training from scratch" and indicate if it is True or False.				
	○ False			
	True			
	○ Correct Correct! Unlike pre-training, fine-tuning a model is generally faster	than pre-training from scratch since the fine-tuned model is typically trained on a much smaller dataset compared to pre-training.		
4.	During training from scratch, BERT uses word masking and next sentence	e prediction in parallel to learn and understand language. In this context, what is the purpose of word masking?	1 / 1 point	
 To hide words that may decrease model performance To remove "stop" words 				
O To predict the next sentence				
	To learn the surrounding words of each sentence			
	✓ Correct			
	That's right! Masking forces the model to learn the surrounding wo	ords of each sentence		
5.			1/1 point	
Fine-tuning a pre-trained NLP model has several benefits as mentioned in the course. What is the ideal dataset for fine-tuning? When they both share a similar vocabulary				
	Correct Correct! Fine-tuning should be applied to datasets with similar vocabularies.			
	When they both share a similar language representation for a language (German) or domain (Amazon.com product catalog)			
	Correct Correct! If 2 models share a similar language representation then fine tuning can work. For example a model trained on that contains German Wikipedia documents can be used to train German product reviews.			
	Any dataset can be used to fine-tune a model from a pre-trained model			
	When the pre-trained dataset is exactly the same as the fine-tuning of			
6.	While training an NLP classifier to classify product reviews, you decide to	set BERT's maximum sequence length to 100. What is the impact of this particular choice?	0.75 / 1 point	
Shorter reviews with less than 100 tokens will be padded up to a length of 100.				
	Longer reviews with more than 100 tokens will be automatically deleted			
	✓ Longer reviews with more than 100 tokens will be truncated down to 100.			
	⊘ Correct			
	Correct! The maximum sequence length defines the maximum nur	mber of tokens passed to an NLP model per sample.		
	Shorter reviews with less than 100 tokens will be automatically deleted			
	You didn't select all the correct answers			
7.	"Amazon SageMaker provides a tool that can send you an SMS if your mo	odel starts overfitting during training". Is the statement accurate?	1/1 point	
	Yes			
	O No			
	⊘ Correct			
	Correct. Amazon SageMaker Debugger can detect common training	g scenarios such as overfitting. If your model is overfitting SageMaker Debugger can automatically work with other AWS services to notify you by	SMS and stop the	