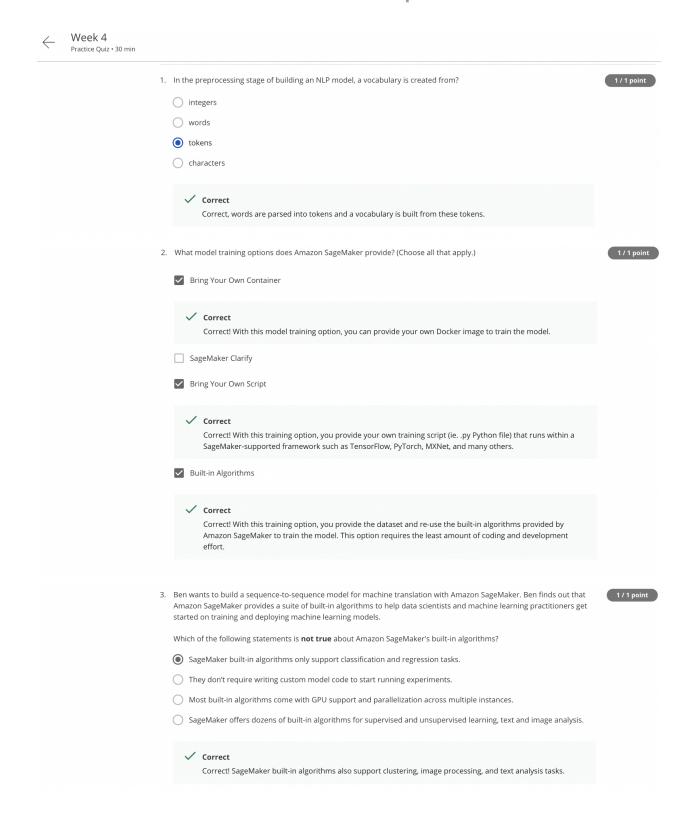
## **Practical Data Science Specialization**



## Hong Hanh

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4. BlazingText is an algorithm that generates dense vector representations of words in large corpora.	1 / 1 point
On which NLP algorithm(s) is SageMaker BlazingText based on? (Choose all that apply.)	
BERT	
✓ Word2Vec	
Correct Correct! Word2Vec uses a shallow neural network that groups similar words together in a vector space, each unique word in the input being assigned a corresponding vector in space.	with
☐ Transformers	
✓ FastText	
<ul> <li>Correct         Correct: FastText is a word embedding method that represents each word as an n-gram of characters. I extension of Word2Vec.     </li> </ul>	t is an
5. You have successfully deployed your trained text classifier using <i>estimator.deploy()</i> on a REST-based SageMaker This endpoint provides a REST API for serving requests and receiving prediction results. By default, these predict requests are expected to be in a certain format. Which format should the serving requests be (by default) for the to respond to the request correctly?	ion
○ XML	
Son	
REST	
O None of the above	
<ul> <li>Correct</li> <li>Correct! The request and response from the REST API both include JSON-formatted data by default.</li> </ul>	
6. Suppose you have an NLP model which was trained on a dataset of millions of Wikipedia documents and has ther learned a language model from billions of word representations.	refore 1/1 point
Now, you want to train a new text classifier model to predict the sentiment of product reviews for our product cat You know that a large number of words in your product reviews dataset are represented in the same Wikipedia dath that was used to train the original language model.	•
What is the best way to train your text classifier model to make accurate sentiment predictions using this product dataset?	reviews
Train the text classifier model from scratch using just the product reviews dataset.	
Repurpose the first model for the second task by fine tuning.	
Correct Correct! The original model has been pretrained on the Wikipedia dataset with billions of words - much la than our product review dataset. Therefore, repurposing and fine-tuning the original model to train our n text classifier is a better option. Fine-tuning is similar to "transfer learning" used to repurpose image mod computer vision.	ew
Train from scratch using both the original Wikipedia dataset and the product reviews dataset.	
None of these	