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Practice Quiz • 20 min • 7 total points å Hide menu Congratulations! You passed! Go to next item A conversation with: Andrew Ng, Antje **Grade received** 92.86% **To pass** 80% or higher Week 1 quiz Barth, Shelbee Eigenbrode and Sireesha Muppala Practice Quiz • 20 min **Feature Engineering Review Learning Objectives** BERT and Feature Engineering at Scale 1. You are training an NLP model to classify product reviews on a very large dataset, but training is taking a long 1/1 point **Feature Store** time. How can you use feature engineering to reduce training time and possibly increase model performance? **Lecture Notes (Optional)** (choose all that apply) Submit your assignment **Practice** Randomly delete instances in the dataset to reduce the dataset size. Practice Quiz: Week 1 quiz Filter irrelevant and redundant attributes, then retrain the model. 7 questions Reading: Lab Budget Exceeding Issue Receive grade **⊘** Correct Correct! This is a feature selection approach that ensures that you are only keeping relevant attributes **To Pass** 80% or higher (Z) Graded App Item: Feature transformation with which is likely to reduce training time and possibly increase model accuracy.. Amazon SageMaker processing job and Feature Normalize or Standardize your data before training 2h **⊘** Correct Correct! Normalizing or standardizing data is the process of converting data to a common format/scale and can therefore reduce training time and sometimes increase model accuracy.. ☐ None of the above 2. You perform correlation analysis on your feature set and discover that some features are highly correlated to each other. How can you take advantage of this information to improve your model's performance? (choose all that apply) Ignore this information as highly correlated features always improve model performance. Combine the correlated features together. **⊘** Correct Correct! Combining highly correlated features together can increase train speed and model performance as this will prevent the duplication of information. Apply different methods to increase the number of highly correlated features. Eliminate one of the correlated features. **⊘** Correct Correct! Features with high correlation have almost the same effect on the target variable and it therefore makes sense to remove one of them. 3. You have a task to train a text classifier on a customer product reviews dataset.. You decide to use the "star rating" 1 / 1 point to create 3 sentiments. Rating 1 & 2 = Negative Rating 3 = Neural Rating 4 & 5 = Positive What feature engineering method did you use in this scenario? Feature Selection Feature Creation Feature Transformation All of the above **⊘** Correct That's right! In feature creation we can combine existing features into new features or even create new attributes from existing ones. This is exactly what was done here as new sentiment features have been created from the "star rating" attribute.

4. BERT, which stands for Bidirectional Encoder Representations from Transformers, and Amazon SageMaker

They both take into account the word position when generating the embedding.

algorithms?

does not support out-of-vocabulary words.

BlazingText are 2 popular natural language processing (NLP) algorithms. What are some characteristics of these

Unlike BERT, BlazingText cannot generate vectors for words encountered outside its vocabulary space i.e it

1/1 point

Try again

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