Feature extraction from text and images Quiz, 4 questions

2 points		
1. Select true statements about n-grams		
N-grams always help increase significance of important words		
Levenshteining should always be applied before computing n-grams		
N-grams can help utilize local context around each word		
N-grams features are typically sparse		
1 point 2. Select true statements.		
Bag of words usually produces longer vectors than Word2vec		
Meaning of each value in BOW matrix is unknown.		
You do not need bag of words features in a competition if you have word2vec features.		
Semantically similar words usually have similar word2vec embeddings.		
2 points		

Suppose in a new competition we are given a dataset of 2D medical images. We want to extract image Feather pextraction at the pextraction on the ImageNet dataset. We will then use Quiz, textraction descriptors to train a simple logistic regression model to classify images from our dataset.

We consider to use two networks: ResNet-50 with imagenet accuracy of X and VGG-16 with imageNet accuracy

of Y (X < Y). Select true statements.		
	Descriptors from ResNet-50 and from VGG-16 are always very similar in cosine distance.	
	Descriptors from ResNet 50 will always be better than the ones from VGG-16 in our pipeline.	
	For any image descriptors from the last hidden layer of ResNet-50 are the same as the descriptors from the last hidden layer of VGG-16.	
	It is not clear what descriptors are better on our dataset. We should evaluate both.	
	With one pretrained CNN model you can get only one vector of descriptors for an image	
1 point 4. Data augmentation can be used at (1) train time (2) test time		
Data augmentation can be used at (1) train time (2) test time		
	True, True	
	False, True	
	False, False	
	True, False	
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