Feature extraction from text and images

Total points

1.	Sel	ect true statements about n-grams	2 points
		N-grams features are typically sparse	
		Levenshteining should always be applied before computing n-grams	
		N-grams always help increase significance of important words	
		N-grams can help utilize local context around each word	
2.	Sel	ect true statements.	1 point
		Meaning of each value in BOW matrix is unknown.	
		Semantically similar words usually have similar word2vec embeddings.	
		You do not need bag of words features in a competition if you have word2vec features.	
	ш	Bag of words usually produces longer vectors than Word2vec	
3.	fror	opose in a new competition we are given a dataset of 2D medical images. We want to extract image descriptors mahidden layer of a neural network pretrained on the ImageNet dataset. We will then use extracted scriptors to train a simple logistic regression model to classify images from our dataset.	2 points
		consider to use two networks: ResNet-50 with imagenet accuracy of X and VGG-16 with imageNet accuracy of Y select true statements.	
		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	
		Descriptors from ResNet-50 and from VGG-16 are always very similar in cosine distance.	
4.	Dat	a augmentation can be used at (1) train time (2) test time	1 point
	0	True, True	
	0	True, False	
	0	False, True	
	0	False, False	
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