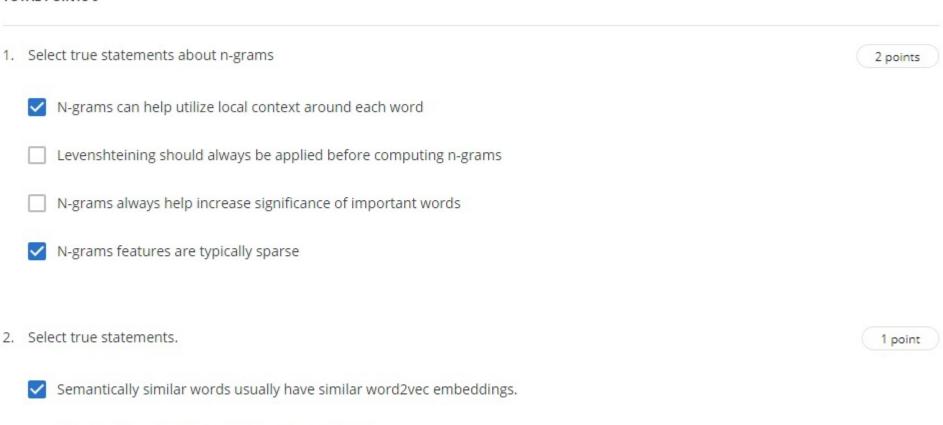
Feature extraction from text and images

You do not need bag of words features in a competition if you have word2vec features.

Meaning of each value in BOW matrix is unknown.

TOTAL POINTS 6



	■ Bag of words usually produces longer vectors than Word2vec
3.	Suppose in a new competition we are given a dataset of 2D medical images. We want to extract image descriptors from a hidden layer of a neural network pretrained on the ImageNet dataset. We will then use extracted 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.
	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.
	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.
	Descriptors from ResNet 50 will always be better than the ones from VGG-16 in our pipeline.

4.	Data augmentation can be used at (1) train time (2) test time	1 point
	False, True	
	True, True	
	○ True, False	
	C False, False	