## Week 5 Quiz

10 试题

1 point

1。

Assume that documents are being classified into two categories, c1 and c2, such that a document can belong to more than one category. The table below shows the prediction of a classifier, denoted by "y" or "n", in addition to the true label (ground truth) represented by a "+" or "-", where a correct prediction is either y (+) or n (-).

	c1	c2
D1	y(+)	y(+)
D2	n(-)	y(+)
D3	n(+)	n(-)
D4	y(-)	y(+)
D5	n(+)	n(-)

Let P(ci) and R(ci) denote the precision and recall associated with category ci, respectively. The precision and recall of c1 and c2 are:

P(c1) = 1/2 R(c1) = 1/2 P(c2) = 1 R(c2) = 1 1 point 2. Given the same data as in Question 1, the classification accuracy of the classifier is: 7/10 9/10 3/10 8/10 1 point 3. Given the same data as in Question 1, what is the recall of the classifier using **micro-averaging** (i.e., by pooling all decisions together)? 1 5/6 4/5

1 point

2/3

4。

Text Cl the nur the nur	ments using a mixture model as discussed in the lecture <b>ustering: Generative Probabilistic Models (Part 3)</b> . Let nber of clusters be K and the vocabulary size be M. What is nber of parameters that the EM algorithm tries to estimate? er each $P(\theta_i)$ or $P(w \theta_i)$ as a separate parameter.
	MNK
	K+MK
	KN+MK
	MK
1 point	
5。 Which o	one of the following statements is <b>not</b> an opinion?
	PLSA always performs similarly to LDA.
$\bigcirc$	PLSA is the best method for a topic mining task.
	PLSA is a mixture model.
1 point	
	false? Word unigrams are the best performing features for ent classification.
	False
	True

Suppose we are performing document clustering on a collection of

1 point			
7.  True or false? Suppose we are using logistic regression for binary classification (i.e., k=2) where the number of features is M. Then, the number of parameters to be estimated is M+1.			
☐ Fa	se		
● Tru	ue		
1 point			
8. True or false? Assume we are using word n-grams as features to perform sentiment classification. Then, higher values of n will usually be <b>less</b> prone to overfitting (i.e., for higher values of n, the difference between training and testing accuracies will be smaller).			
	between training and testing accuracies will be stildlier).		
Tru	ue		
Tru  Fal	ue		
Fall 1 point	ue		
Fall point 9.	uracy sometimes not good for classification evaluation?		
1 point  9. Why is according to the check all the control of the c	uracy sometimes not good for classification evaluation?		
1 point  9. Why is accompleted the point of	uracy sometimes not good for classification evaluation? nat apply. r imbalanced dataset, high accuracy does not imply		

point	
•	vant to put more emphasis on precision than recall, how you adjust the value of $eta$ ?
	Choose a low value of $eta$
	Choose a high value of $eta$
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