

Lecture 13 10/6/2011

Text classific	ation	
 First Naïve Bay Simple Then K Nearest Simple 	/es , fast, low training and testing cost t Neighbor classification , can easily leverage inverted index, hic	ιh
variand Today Linear cla A very SVMs Some em Text-spec	e, non-linear ssifiers quick tour pirical evaluation and comparison cific issues in classification	,
10/17/11	CSCI 5417 - IR	2























# of Vague Adjectives	Amount House Sold Over Asking Price
4	0
2	\$1000
2	\$6000
1	\$14000
0	\$18000
Clearly, hot pr associated wit	operties are not h vague adjectives.













































Reuters Text Categorization data set (**Reuters-21578)** document

<REUTERS TOPICS="YES" LEWISSPLIT="TRAIN" CGISPLIT="TRAINING-SET" OLDID="12981" NEWID="798">

<DATE> 2-MAR-1987 16:51:43.42</DATE>

<TOPICS><D>livestock</D><D>hog</D></TOPICS>

<TITLE>AMERICAN PORK CONGRESS KICKS OFF TOMORROW</TITLE>

<DATELINE> CHICAGO, March 2 - </DATELINE><BODY>The American Pork Congress kicks off tomorrow, March 3, in Indianapolis with 160 of the nations pork producers from 44 member states determining industry positions on a number of issues, according to the National Pork Producers Council, NPPC.

Delegates to the three day Congress will be considering 26 resolutions concerning various issues, including the future direction of farm policy and the tax law as it applies to the agriculture sector. The delegates will also debate whether to endorse concepts of a national PRV (pseudorabies virus) control and eradication program, the NPPC said.

A large trade show, in conjunction with the congress, will feature the latest in technology in all areas of the industry, the NPPC added. Reuter

</BODY></TEXT></REUTERS> CSCI 5417 - IR 37





	10 / (00)	liacy				
	Rocchio	NBayes	Trees	LinearSVM		
earn	92.9%	95.9%	97.8%	98.2%		
acq	64.7%	87.8%	89.7%	92.8%		
money-fx	46.7%	56.6%	66.2%	74.0%		
grain	67.5%	78.8%	85.0%	92.4%		
crude	70.1%	79.5%	85.0%	88.3%		
trade	65.1%	63.9%	72.5%	73.5%		
interest	63.4%	64.9%	67.1%	76.3%		
ship	49.2%	85.4%	74.2%	78.0%		
wheat	68.9%	69.7%	92.5%	89.7%		
corn	48.2%	65.3%	91.8%	91.1%		
Avg Top 10	64.6%	81.5%	88.4%	91.4%		
Avg All Cat	61.7%	75.2%	na	86.4%		



























