

Foundations of Information Retrieval

Exercise 8

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1. Supervised learning and Naive Bayes classifier

1. Given are the following document sets:

	Doc ID	Terms	Class
Training set	D1	<i>Sports Skating</i>	C1
	D2	<i>Ice Skating</i>	C1
	D3	<i>Ice</i>	C1
	D4	<i>Biking</i>	C2
Test set	D5	<i>Sports Biking</i>	?

- a. Compute the parameters for a multinomial Naïve Bayes classifier.
 - b. Classify document D5 using the classifier you have created.
2. Explain the term *supervised learning*.