

Foundations of Information Retrieval

Exercise 8

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Supervised learning and Naive Bayes classifier

1. Given are the following document sets:

	Document ID	Terms in document	Class
Training set	D1	Sport Schlittschuhlaufen	C1
	D2	Wintersport Schlittschuhlaufen	C1
	D3	Wintersport	C1
	D4	Radfahren	C2
Test set	D5	Sport Radfahren	?

- 1a. Compute the parameters for a multinomial Naive Bayes classifier.

1b. Classify document D5 using the classifier you have created.

2. Explain the term „supervised learning“.