

## Assignment III – Probabilistic Reasoning

Implement the Naive Bayesian Classifier for news group text classification, as explained in the lecture notes (see Chapter 6.9-6.10, p. 177-184, in the Machine Learning book by Tom M. Mitchell)

- It is preferable to work in groups of two persons (large groups than three persons are not accepted).
- Any programming language is accepted. Since the assignment involves parsing of text documents, it may be wise to use a language that support text parsing (such as Python or Java)
- A Powerpoint presentation that explains your implementation and experimental results are to be submitted. The main algorithm (in code) should also be extracted and submitted. The complete source code should also be submitted. Zip all files into one zip- archive and upload the archive.
- The assignment is rather large so you better start in time...
- The assignment may require decisions that are not explicitly explained in the text. You should come up with reasonable solutions to those on your own (or by discussing with your class mates). Those kinds of decisions should be mentioned.