Semantic Computing

Tutorial 3

Summer Semester 2018

Link to machine learning Python library called scikit learn or sklearn: `http://scikit-learn.org/stable/`

Exercise 1

In this exercise you will implement a Naïve Bayes (NB) classifier of your choice, starting from the provided options in `http://scikit-learn.org/stable/modules/naive_bayes.html`. To do this, follow the subsequent steps:

- Download the Python file in tutorial 3 from `https://github.com/dgromann/SemanticComputing/`

- Work through the already provided code

- Follow the instructions provided as "TODO" to achieve the following:

    - Process the test data in the same way that the training data were processed

    - Train the NB classifier of your choice

    - Use np.mean or a similar method to calculate the overall accuracy of your classifier over the whole test set

This provides you with a percentage between 0 and 1 that makes the individual NB classifiers comparable. It is the same kind of accuracy we saw in previous tutorials.