

Ontology Construction

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1. **Outlining the Task**

The task was to automatically classify the seminar announcement emails according to an ontology.

1. **The Ontology Tree**

By scanning through the training emails I constructed an ontology tree by hand, which looks as following:

* + science
    - chemistry
    - electrical engineering
    - mathematics
      * statistics
    - computer science
      * HCI
      * artificial intelligence
        + robotics
      * software engineering
    - biology
      * environment
    - physics
    - psychology
  + business
    - marketing
    - career
      * graduate
  + art
    - architecture
    - music
    - painting

1. **The Algorithm**

By scanning through the training

Reference:

1. NLP-FOR-HACKERS, 2017 – A blog about simple and effective Natural Language Processing. Available at: <http://nlpforhackers.io>
2. Scikit-learn.org, 2017 – scikit-learn: machine learning in Python – scikit-learn 0.19.1. Available at: http://scikit-learn.org