



synedra



information technologies

synedra ist ein Unternehmen mit über 90 Mitarbeiter*innen in Österreich, Deutschland und der Schweiz. Wir entwickeln, implementieren und unterstützen in unserem Headquarter in Innsbruck seit über 15 Jahren Softwarelösungen für Gesundheits-einrichtungen.

Probabilistic Classification of clinical documents

Diploma or Master's thesis - 10 to 20 hours per week

Research Question:

Is it possible to develop a generic model that can add value in various healthcare facilities?

In your thesis you will work with clinical data sets of synedra AIM and build a model in order to recognize generalizable patterns in the data sets. The data sets are collected from healthcare facilities in the DACH region (Germany, Austria, Switzerland) and comprise clinically relevant patient documents of various character (different document classes), such as discharge reports, laboratory reports and surgery reports.

The aim of the thesis is to answer the question whether it is possible to create a generic model that can assign documents of unknown origin and unknown document class to the corresponding class in a generic document class schema on the basis of contentual, textual analysis.

You will investigate with established methods of Natural Language Processing (NLP), evaluate different text representation techniques (feature extraction) and assess their suitability in the clinical context. Moreover, you will evaluate various classification algorithms with respect to their suitability, for example:

Support Vector Machines, Deep Learning Networks, Random Forests or Ensemble Techniques.

#synedrabenefits

- Flexible working hours
- Home office
- flat hierarchies
- Training and development
- Educational leave
- Sabbatical
- Company pension scheme
- Parking area
- Good transport connections
- Family-friendly environment
- Dogs allowed
- Fully equipped kitchen
- Free coffee and fruits
- Employee events

#synedracontact



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Salary of € 1,300 gross per month on a full-time basis (Kollektivvertrag IT), employment for 6 months, starting date upon agreement

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