Data and Knowledge Engineering

Sommer

(in German: Data and Knowledge Engineering)

Module-ID: FIN-INF-120500

Abbreviation	Credit Points	Semester	Term	Duration	Language	Level
	6	Sommer	starting at 1.	1 Semester	english	Master

Link:	LSF
Limited accessability:	
Responsibility:	Andreas Nürnberger
Lecturer:	Andreas Nürnberger
Classes:	Seminar *Data and Knowledge Engineering*
Applicability in curriculum:	- M.Sc. INF: Schlüssel- und Methodenkompetenzen - M.Sc. INGINF: Schlüssel- und Methodenkompetenzen - M.Sc. WIF: Schlüssel- und Methodenkompetenzen - M.Sc. DKE: Fundamentals of Data Science - M.Sc. VC: Schlüssel- und Methodenkompetenzen

Intended learning outcomes:
Students who complete the course ...

- understand how to work in practice with DKE approaches
- can perform a literature review on the state-of-the-art on a given topic
- can describe a given DKE task in form of a scientific paper
- can present and defend a practical project by a presentation and discussion

Content:
The seminar focuses on applying machine learning techniques to a hands-on problem, resulting in a paper and short presentation in one of the following research areas: Information Retrieval:

- Document organization
- Information management
- Ranking & Explainability

Natural Language Processing
- Named Entity Recognition
- Tokenization & Filtering
- Latent Representations of Words / Sentences / Documents

Human Computer Interaction
- Usability
- User Experience (UX) Design
- Human-AI interaction

Workload:
180 h self study

Pre-examination requirements:	Type of examination:	Teaching method / lecture hours per week (SWS):
	Written report and oral presentation (*Referat*). Requirements for exam participation will be announced in the first week of the course in class and online.	Seminar

Prerequisites according to examination regulations:	Recommended prerequisites:
keine	

Media:	Literature:

Comments:

Revision #1
Created 2026-10-20 17:01:55 UTC by Fakultät für Informatik
Updated 2026-10-20 17:01:55 UTC by Fakultät für Informatik