





INTERACTIVE DATA EXPLORATION AND ANALYTICS

Social Computing Group Department of Computer Science and Applied Cognitive Science Faculty of Engineering

StudyCompass

Selector





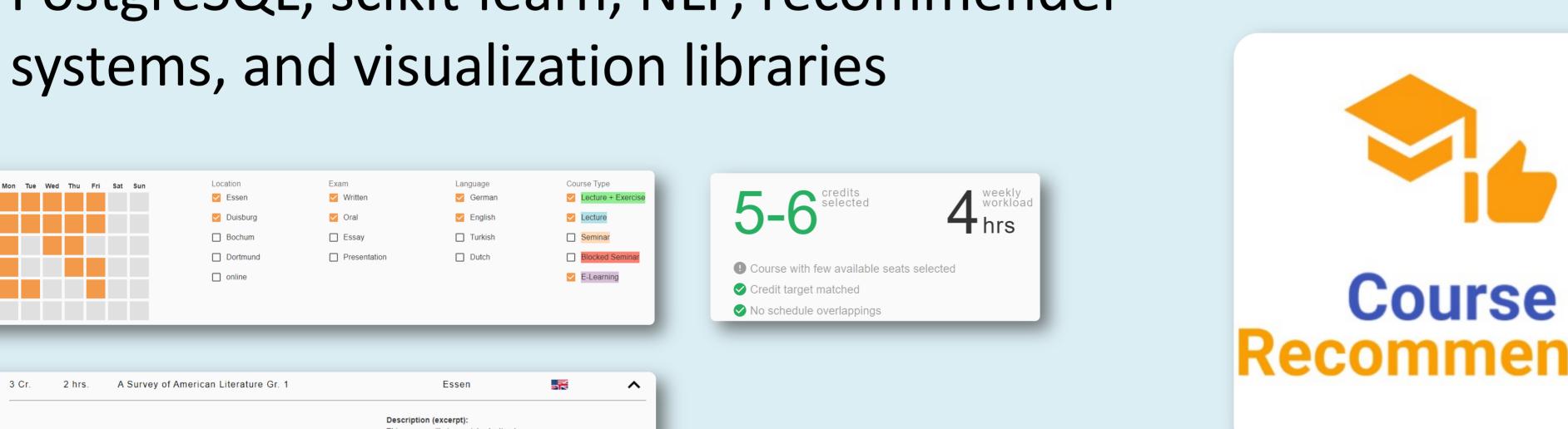
M. Sc. Shoeb Joarder

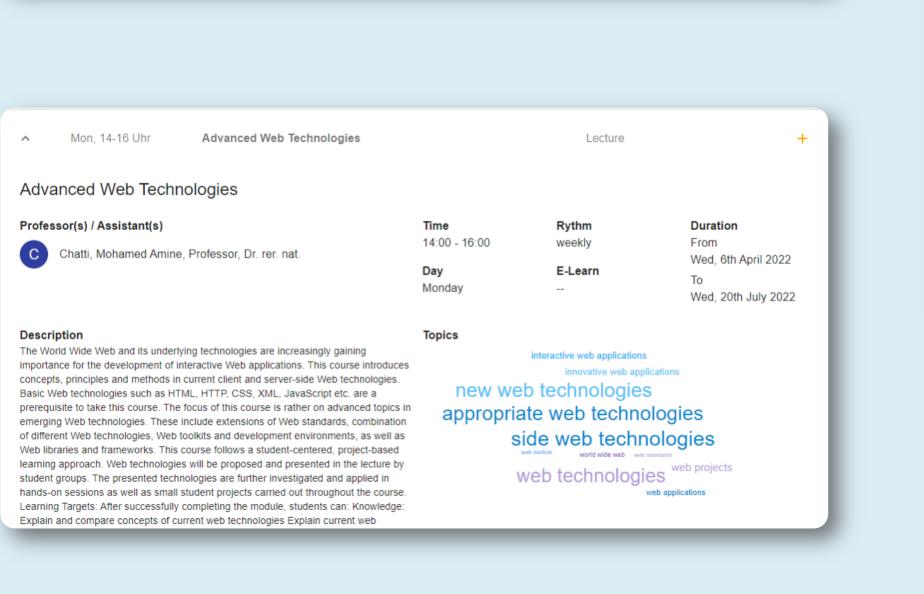
Goal of the Lab

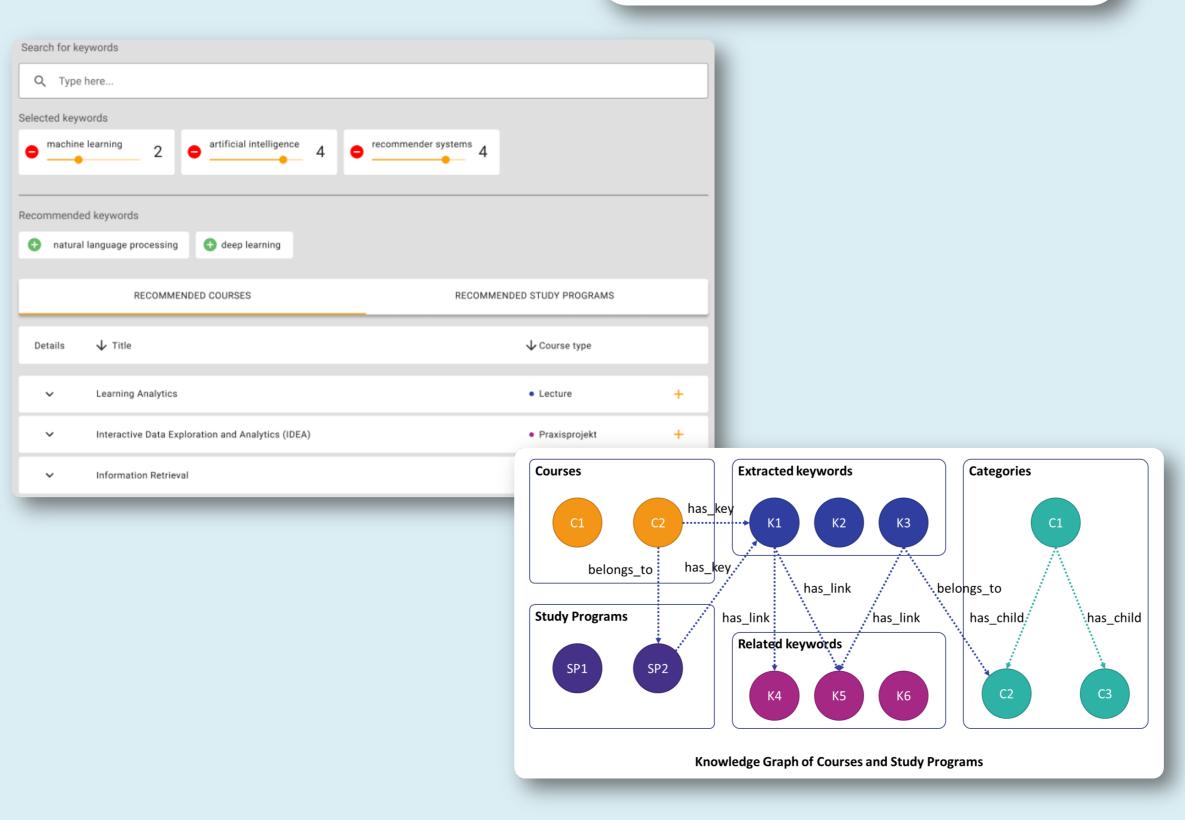
- Effective integration of techniques from
 - Human-Computer Interaction (HCI)
 - Information visualization
 - Machine Learning
- Teaches students
 - Data collection and management
 - Data analysis
 - Interactive data visualization
 - Visual analytics

Exploratory Learning Analytics Toolkit for Students (ELAS)

- Support UDE students in their learning activities
- Collection of Learning Analytics applications developed by students for students
- Technologies used: React, Flask, Neo4j, PostgreSQL, scikit-learn, NLP, recommender







StudyCompass

Helps UDE students set course schedule

- Data extraction and aggregation of INKO department courses from LSF and VDB
- Detection of conflicting schedules

E3Selector

Provides insights into E3 module courses

- Data scraping of E3 courses from LSF
- Search, filter, sort, and rate E3 courses

CourseRecommender

Provides course and study program recommendations to new students

- Data collection of Engineering courses & study programs from LSF and VDB
- Personalized recommendation based on Knowledge Graphs (KG), NLP, and Word Embeddings