



Prof. Dr. Mohamed Amine Chatti

INTERACTIVE DATA EXPLORATION AND ANALYTICS

Social Computing Group

Department of Computer Science and Applied Cognitive Science

Faculty of Engineering



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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



StudyCompass

Helps UDE students set course schedule

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

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 systems, and visualization libraries



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

