Matching and Interacting with Enterprise Knowledge Graphs via LLMs



Team Project HWS 2024





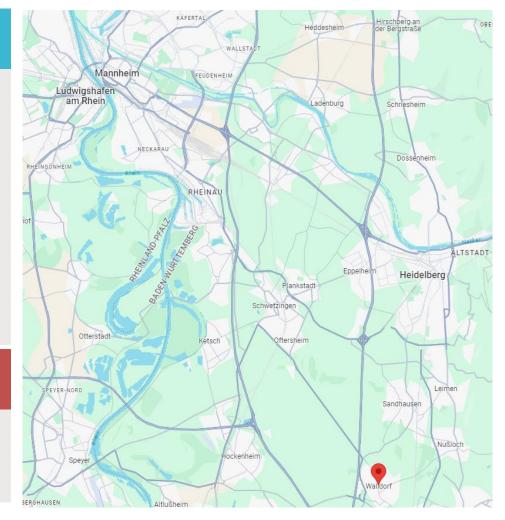


COMPANY FACTS

- Founded in 2014
- Headquartered in Walldorf, Germany
- International team across multiple locations
- Independent software vendor
- metaphactory Knowledge Graph Platform

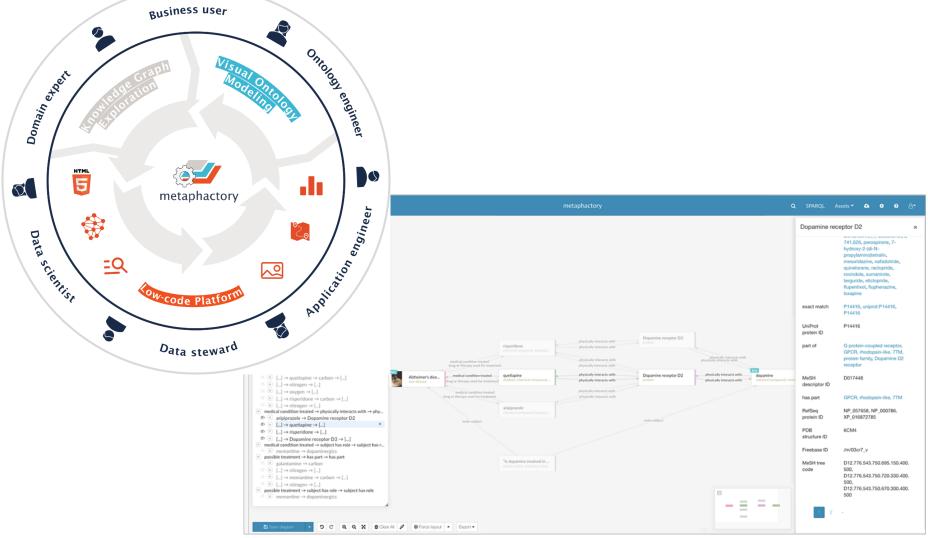


Drive digital transformation by unlocking the value of your data assets with knowledge graphs.

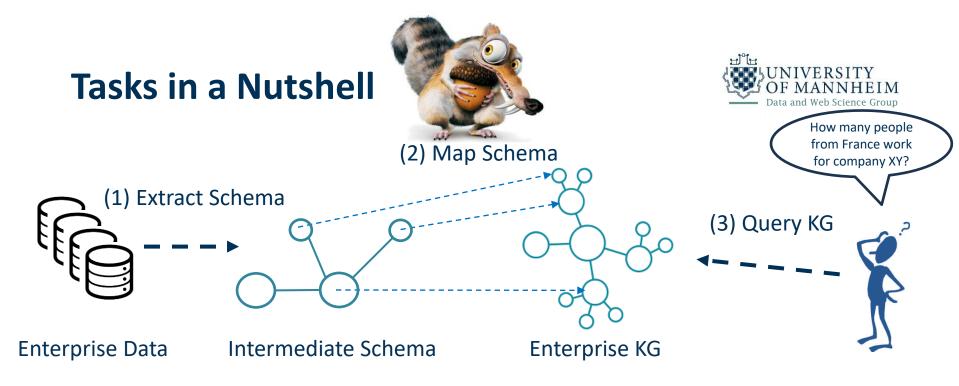


Metaphactory





Team Project | Matching and Interacting with Enterprise Knowledge Graphs via LLMs Image: https://iceage.fandom.com/de/wiki/Scrat



- Tasks
 - 1. Automatically extract a schema from a given data source (database, API, stream, ..)
 - 2. Automatically create mappings from the extracted schema to the existing enterprise knowledge graph (KG)
 - 3. Query the KG using natural language
- Focus can be on one or two tasks more in depth depending on the team's size and interests

Supervisors



metaphacts







Dr. Peter Haase metaphacts GmbH Founder & Chief Scientific Officer

E-Mail: ph@metaphacts.com



Dr. Sven Hertling Chair for Data Science

sven.hertling@ E-Mail: uni-mannheim.de



Dr. Nicolas Heist metaphacts GmbH previously at Data and Web Science Group

E-Mail: nh@metaphacts.com

Organisational information



- The project runs for one semester (six months)
- 3-4 students
- There will be regular meetings together with metaphacts to ensure close mentoring
- Computing infrastructure is provided by the DWS group
- Required skills of the team
 - Attended (or attending) the following courses:
 - Knowledge Graphs (Semantic Web Technologies)
 - Data Mining (or comparable ML course)
 - Good programming skills e.g., Python or Java



Do you have ICE BREAKING questions?





Team Project | Matching and Interacting with Enterprise Knowledge Graphs via LLMs Image: https://iceage.fandom.com/de/wiki/Scrat

Don't wait too loooong





Team Project | Matching and Interacting with Enterprise Knowledge Graphs via LLMs Image: https://iceage.fandom.com/de/wiki/Scrat