

CHOOSE YOUR THESIS

Detection of structured process fragments in project management processes

Master or bachelor thesis

BACKGROUND

Process mining allows the extraction of useful information from event logs and historical data of business processes. Knowledge-intensive processes, e.g. in project management, often contain routine fragments that could be used for automation or that would benefit from standardization. However, the overall knowledge-intensive process most likely benefits from remaining semi-structured / flexible.

This thesis should focus on improving process identification and process discovery in regard to finding structured process fragments in project management environments, i.e. in regard to introduce process mining into knowledge-intensive work. With structured interviews and capturing process instance data from various information systems, this thesis should distill first methods to capture structured fragments. The approach can be iteratively designed and directly tested in cooperation with NürnbergMesse GmbH.

CONCEPTS

- Business Process Management
- Robotic Process Automation
- Process Mining
- Object-Centric Process Mining
- Data Science
- Project Management
- Semi-Structured Interviews

YOUR PROFILE

- Master or bachelor student
- Notion of business process management
- Programming experience (e.g. Python, Java) preferred primarily for ETL processes
- Interest in both qualitative and quantitative research

CONTACT

For questions regarding the topic and thesis, please refer to the contact below.

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Feel free to ask questions via email and apply here: → <https://fau-is.typeform.com/to/R131pa>

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