

Lisann Jill Morlok

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Profile

M.Sc. Informatics student at TUM specializing in backend systems, data engineering, and applied machine learning. Experienced in building scalable data platforms, production-oriented AI workflows, and analytical applications with Python, FastAPI, Dash, and relational databases.

Education

Technical University of Munich (TUM) 2024 – Present
M.Sc. Informatics — Machine Learning, Data Analytics, Simulation & Modeling
Karlsruhe Institute of Technology (KIT)
B.Sc. Computer Science

Experience

advasolutions — Working Student AI Engineering Apr 2026 – Present
Munich, Germany

- Design end-to-end LLM and RAG pipelines for internal AI systems, from prototype to production deployment.
- Build data pipelines, external API integrations, and automated knowledge workflows for AI use cases.
- Implement prompting, retrieval, embedding, vector search, and evaluation workflows for high-quality AI-supported systems.

BMW Group — Working Student Software Engineering Mar 2025 – Feb 2026
Munich, Germany

- Led data migration and system integration work to transfer historically grown legacy data into a clean relational target structure.
- Developed Python scripts to automate transformation, cleansing, and validation of inconsistent Excel-based source data.
- Built a new relational database integrating over 100,000 structured records from legacy systems.
- Developed a Dash web application and REST API for data visualization and interaction with the database.
- Integrated external APIs and similarity analysis to enrich part data and map outdated naming conventions.

SEMEDY GmbH — Working Student Parser Development Apr 2021 – Sep 2021
Karlsruhe, Germany

- Developed Python parsers extracting structured data from APIs and heterogeneous sources.
- Implemented validation and transformation pipelines improving data reliability.

Selected Projects

Machine Learning Pipeline

Implemented supervised and unsupervised models with feature engineering, hyperparameter tuning, and cross-validation in Python.

Quantitative Trading System

Built a modular Python trading framework with API integration, backtesting, and risk management.

Technical Skills

Languages: Python, Java, SQL, JavaScript

Frameworks: FastAPI, Dash

Data & ML: Database design, ETL pipelines, regression, clustering, neural networks, LLM systems, RAG architectures, embeddings

Cloud & Tools: Microsoft Azure, Git, Agile (Scrum), Docker basics

Languages

German (native), English (fluent), Spanish (fluent), French (intermediate), Chinese (basic)