

Working Student Position

Data Science and Engineering for Generative AI

About Inverso GmbH and Team DAKI

Versicherungskammer Bayern, is one of the largest insurance companies in Germany. It is the parent company of Inverso, its internal IT consulting arm. Our Data Analytics and Artificial Intelligence (DAKI) team is at the forefront of applying generative AI to create innovative solutions for the insurance industry. We focus on cutting-edge research and development, pushing the boundaries of what's possible with AI.

Motivation

- Apply your academic knowledge in machine learning and generative AI to real-world problems.
- Gain hands-on experience with cloud-native data science and engineering tools and platforms.
- Contribute to the development of groundbreaking AI applications in the insurance industry.
- Enjoy a stable work environment with excellent opportunities for professional growth.
- Explore the possibility of aligning your studies with your work through research projects or a master's thesis.

Requirements

- **Study program:** Computer science; information systems; data science and engineering; robotics, cognition, and intelligence; mathematics.
- **Study level:** M.Sc. or final year B.Sc. students
- **Technical experience:**
 - **Required:** Python, Pandas, and one statistics/ML/AI framework (e.g., sklearn, LangChain, SciPy)
 - **Optional:** Streamlit, LangChain, MLflow, PySpark, SQL
- **Language skills:** Basic English plus German B1-level or a bachelor's degree from a German university

Tech Stack

- **Programming language:** Python

- **Frameworks:** Pandas, LangChain, Streamlit, Kedro, MLflow
- **Data platform:** Snowflake (cloud-native)
- **Frontend:** Streamlit
- **LLM paradigms:** Tool-based agents, plan-and-execute agents, retrieval-augmented generation
- **NLP tasks:** information retrieval, information extraction, answer extraction, attribution and hallucination detection, confidence metrics, document classification, LLM tagging
- **LLMs:** OpenAI, Snowflake Cortex (Mistral, Reka, Arctic)

Insurance Use Cases

- Automation of insurance coverage checks (classification, reasoning, planning, causality graphs)
- Competitive analysis by scraping product websites (crawling agents, data pipelines, structuring unstructured data, experiment tracking, data engineering)
- Email processing (production-ready data pipelines, structuring unstructured data, experiment tracking, data engineering)
- Fraud detection (deep fake recognition, multi-modal LLMs, ...)

Apply today and become part of the AI revolution at Versicherungskammer Bayern!

You found yourself in this description? Then we are very much looking forward to your application including your grading transcript and CV via email to personal@inverso.de. You can find out more about us at www.inverso.de.