

Aditya Ghanashyam Ladawa

Braunschweig, Germany | +49 15510 030840

adityaladawa12@gmail.com | [GitHub](#) | [LinkedIn](#)

24. July 2025

Crewmeister

Application for Data Science Work Student Position

Currently pursuing an MSc in Data Science at TU Braunschweig, with extensive experience building scalable data pipelines and AI systems. The opportunity to contribute to Crewmeister's data infrastructure while working with cross-functional teams to optimize ETL processes and develop predictive models aligns directly with both academic focus and practical engineering experience.

- Built production-grade data pipelines processing biomedical literature with 94% accuracy in metadata extraction, reducing manual screening time by 60-90%. Experience includes designing ETL workflows with FastAPI, orchestrating multi-agent systems with LangGraph, and optimizing pipeline performance for real-time processing.
- Developed automated content generation systems processing video data through FFmpeg pipelines, achieving 20x reduction in production time. Technical stack includes Python, SQL optimization, Docker containerization, and Git workflows—directly applicable to Crewmeister's data pipeline requirements.
- Created scalable AI research assistant with hybrid RAG architecture, implementing Redis caching and Qdrant vector databases. Achieved 5x token efficiency improvements and 4% gains in multi-step reasoning through systematic pipeline optimization and performance monitoring.
- Experience with predictive modeling using TensorFlow and PyTorch, including CycleGAN implementations for medical imaging and trading algorithms with HMM integration. Strong foundation in translating business requirements into technical solutions and communicating analytical findings to stakeholders.

The combination of academic rigor in data science and hands-on experience with production systems positions me to contribute immediately to Crewmeister's data infrastructure. Ready to apply technical expertise in pipeline development, SQL optimization, and predictive modeling to drive business decisions and support the company's continued growth in the Munich startup ecosystem.

Warm regards,

Aditya Ghanashyam Ladawa