

# Andreas Hermann

## Summary

Enthusiastic Data and AI/ML professional with 7+ years of combined research and industry experience. Dedicated to architecting and engineering innovative, and safe AI/ML systems, with a strong interest in technical AI alignment and ensuring positive (societal) value. Eager to engage in new and exciting opportunities, contributing to solving pressing problems and challenges.

## Contact

- ✉ [hermann\\_andreas@icloud.com](mailto:hermann_andreas@icloud.com)
- ☎ +49 17666889091
- 📍 59510 Lippetal, Germany
- 🌐 [LinkedIn: Andreas Hermann](#)
- 📄 [Research Gate: Andreas Hermann](#)

## Technical Skills

- **Cloud Platforms:** Google Cloud Platform (Vertex AI, BigQuery, Cloud Run, Compute Instances)
- **Data Management & Engineering:** ETL Pipelines, Data Warehousing, BigQuery, Cloud Run, Elasticsearch
- **Machine Learning:** Fine-tuning (LoRA, PEFT), Transformer Models, Multimodal Models, Inference Optimization (Quantization), Deep Learning Fundamentals
- **MLOps & Automation:** Docker, Vertex AI Pipelines, MLflow, Metaflow
- **Programming Skills:** Python, SQL, R
- **Libraries & Frameworks:** Pytorch, Tensorflow, Scikit-learn, Pandas, Numpy
- **Developer Tools:** Git

## EXPERIENCE

11/2024–  
present

**Director of Data & AI/ML Engineering** 📍 Cologne, Germany  
*Syndigo*

- Spearheaded development of multiple in-house ML services, resulting in a combined 130k annually in cost savings and new revenue
- Architect, develop, and deploy advanced ML models, incorporating deep learning, multimodal approaches, and fine-tuning techniques (e.g., LoRA, feature extraction) to enhance product data processing and validation
- Implement & mature MLOps best practices (versioning, orchestration w/ Docker, Vertex AI) managing efficient deployment pipelines for 5+ production models
- Design & maintain scalable data pipelines & cloud infrastructure processing large-scale structured/unstructured datasets for ML applications

03/2025–  
09/2025

**AI Alignment Research Fellow** 📍 Remote  
*AI Safety Global Society*

- Selected for the inaugural cohort of the AI Alignment Research Fellowship (ARF) pilot program, based on the intensive ARENA curriculum ([arena.education](#))
- Researched technical AI alignment challenges, focusing on areas including mechanistic interpretability, scalable oversight, agent foundations, robustness, and risk analysis for advanced AI systems
- Collaborated within an international research network supported by the European Network for AI Safety (ENAIS)
- Published a peer-reviewed paper on alignment in multi-agent LLM systems at HCI International (HCI)

05/2023–  
11/2024

**Data Scientist** 📍 Cologne, Germany  
*1WorldSync GmbH*

- Developed and personally deployed 4+ machine learning models into production, improving product content management, validation, & syndication processes
- Implemented deep learning techniques (Transformers, multimodal processing) to enhance data capturing, quality assurance, & enrichment across platforms
- Utilized cloud services (Vertex AI, BigQuery, Dataflow, Elasticsearch) for large-scale ML training, deployment & data management
- Containerized ML workflows with Docker for scalability and reproducibility

03/2018–  
10/2022

**Research Assistant** 📍 Münster, Germany  
*University of Münster, Chair for Information Systems and Information Management*

- Managed ~300k EU-funded international research project (10 direct reports), coordinating multiple partners across 6 countries
- Supervised data science seminars (e.g., data-driven business models, RL for logistics, ML for production processes) involving ~30 students
- Published 17 peer-reviewed articles (250+ citations) and presented research findings at numerous (international) conferences

## Languages

- 🇩🇪 German - Native
- 🇬🇧 English - Professional Proficiency

## Strengths

- Capable to Learn Quickly
- Curiosity
- Meticulous Eye for Details
- Confident Presenter
- Discipline
- Conscientious
- Creativity
- Resilience
- Principle-driven

## Other Interests

- Marathon Running:** Dedicated long-distance runner with multiple marathon completions
- Freediving Instructor:** Certified Freediving instructor with a passion for marine life
- Travel Enthusiast:** Extensive global travel, fostering a well-rounded cultural perspective

## EDUCATION

- 03/2018–07/2022 | **PhD – Information Systems** | *University of Münster* | 📍 Münster, Germany
  - Grade: Magna Cum Laude
  - Awards: REACH Thesis Award 2022
- 04/2015–12/2017 | **MSc – Information Systems** | *University of Münster* | 📍 Münster, Germany
  - Grade: 1.3
  - Awards: CLAAS AlumniUM-Master-Award 2018
- 08/2016–12/2016 | **Exchange – Information Systems** | *Karlstad University* | 📍 Karlstad, Sweden
- 04/2012–03/2015 | **BSc – Information Systems** | *University of Münster* | 📍 Münster, Germany
  - Grade: 1.8
  - Awards: Beta Gamma Sigma Membership

## PROFESSIONAL DEVELOPMENT

- 03/2026 | **Technical AI Safety** | *BlueDot Impact*
- 09/2025 | **Alignment Research Fellowship** | *AI Safety Global Society*
- 01/2025 | **AI Safety Fundamentals – AI Alignment** | *BlueDot Impact*
- 12/2024 | **Intro to Transformative AI** | *BlueDot Impact*
- 07/2024 | **Generative AI with Large Language Models** | *DeepLearning.AI*
- 05/2024 | **Deep Learning Specialization** | *DeepLearning.AI*
- 11/2023 | **Machine Learning Specialization** | *Stanford University & DeepLearning.AI*