+49 1578 176 4508 Stuttgart, Germany christian.reiser@insightme.org

M.Sc. Christian Reiser

GitHub: christianreiser LinkedIn: reiserchristian

Machine Learning Engineer and Architect Google Scholar: Christian Reiser

TECHNICAL EXPERIENCE

Generative AI and Cloud Engineering

Senior Machine Learning Engineer, starting JUL 2024

e-dialog

Vienna. Austria

Due to previous commercial success, I will build and lead the Generative AI Team.

Generative AI and Cloud Engineering

Machine Learning Engineer, NOV 2022 - JUN 2024

Vienna, Austria

- e-dialog · Leading Generative AI task force
- From idea to ROI: Client pitches, obtaining Google funding, business and technical requirements, architecture, project plan, development, deployment, support.
- Well connected with Google Cloud managers and engineers, and obtained the Partner Advantage Specialization.
- Developed and deployed LLMs to production to generate newsletters, product descriptions, and SEO texts.
- Built and deployedChatBots using OpenAl APIs, LangChain, Retrieval-Augmented Generation (RAG).
- Fine-tuned LLMs via supervised learning and HFRL on TPUs in GCP.
- Architected and engineered with GCP as a Google Cloud Partner mainly via serverless resources like Vertex AI, Cloud Run, and Cloud Functions, CI/CD.

Anomaly Detection for Smart Factories

Applied Data Scientist, APR 2022 - NOV 2022

Phinc GmbH

Stuttgart, Germany

- Developed real-time anomaly detection auto-encoders, saving approximately €40,000 per detection, increasing productivity, and reducing downtime.
- Utilized Linux, Pycharm, Python, Jupyter notebooks, pandas, NumPy, Docker, Scikit-Learn, multiprocessing, and pickle for efficient data processing and analysis.

Development of a Scientific Data-Driven Healthcare App *InsightMe*

Owner and Leader, MAI 2019 - APR 2022

Stuttgart, Germany

- Led a team development of InsightMe, an innovative healthcare app leveraging AI/ML algorithms for causal discovery and inference from high-dimensional time-series data, accounting for contemporaneous links and latent confounders.
- Data collection via crawlers, APIs, BigQuery data transfers.
- (ML)DevOps: Deploy and maintain Cloud Infrastructure using Git, IaC with Terraform, Vertex AI Pipelines. CI/CD with Cloud Build.
- Employed NLP, GPT-3, Bayesian inference, ML Cloud Architecture and Solution Design, GCP tools (Firestore, Pub/Sub, Cloud Storage, BigQuery (SQL), Cloud Run, Cloud Functions, IAM, Logging, Monitoring, Alerting), front-end development (Flutter).

Autonomous Flight of Helicopters

Machine Learning Engineer, APR 2018 - APR 2019

Volocopter GmbH

Bruchsal, Germany

- Developed a vision-based object detection system, achieving superior accuracy in identifying birds and enhancing the safety of autonomous helicopter flights.
- Applied deep learning techniques in simulation, with PyTorch followed by fine tuning.

Autonomous Driving

Machine Learning, JAN 2017 - MAR 2018

Udacity / Mercedes-Benz

Stuttgart, Germany / California, United States

In a team of 5 we programmed a car to drive autonomously on a test track (GitHub repository).

PUBLICATIONS

- Predicting and Visualizing Daily Mood of People Using Tracking Data (Link to Paper)
- Observational Causal Discovery with Latent Confounders (Link to Paper)
- · Observational and Interventional Causal Learning for Regret-Minimizing Control (Link to research report)

EDUCATION AND CERTIFICATES

- B.Sc. Aerospace Engineering, University of Stuttgart
- M.Sc. Simulation Technology (Elite Program and part of the Cluster of Excellence), University of Stuttgart
- Self-driving Cars Engineer Nanodegree, Udacity
- 4 Google Cloud Certificates: Cloud Engineer, Professional Data Engineer, Professional Cloud Architect, Professional Machine
- 12 online courses about generative AI including Responsible AI, LLM, attention mechanism, transformer, BERT, image generation, encoder-decoder architecture