



# Dr. Jannik Castenow

Data Scientist

## CONTACT

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📍 Niedernwöhren, Germany

🌐 github.com/jannik-cas

🌐 LinkedIn

## SKILLS

### ML & Deep Learning

PyTorch scikit-learn XGBoost

LightGBM CatBoost Optuna

HF Transformers LangChain

SHAP

### Data Engineering

Python PySpark Polars

Narwhals Pydantic

### MLOps & Infra

Kubeflow KFP Docker

Kubernetes MLflow

### Visualization

Matplotlib Seaborn Plotly

Streamlit

## LANGUAGES

German — native

English — fluent

## WORK EXPERIENCE

### Data Scientist

Sep 2023 — present

ITSC GmbH

- Developing and deploying ML pipelines for public health insurance — from deep learning and federated learning to gradient-boosted tree models
- Designing RAG-based architectures to integrate LLMs into domain-specific workflows
- Integrating ML solutions into traditional health insurance processes

### Research Assistant

Jan 2018 — Jul 2023

Heinz Nixdorf Institute, Paderborn University — Chair of Algorithms & Complexity

- Research on distributed algorithms and mobile robot coordination
- Published 13 peer-reviewed papers; presented at 9 international conferences
- Best Student Paper Award (SIROCCO 2020), Best Paper Awards (ICDCN 2020, SSS 2020, ALGOSENSORS 2021)
- Supervised student theses and tutored courses

### Student Research Assistant

Mar 2017 — Dec 2017

Paderborn University

- Built a simulator for hybrid communication networks in C++
- Research on competitive routing in hybrid networks

### Student Teaching Assistant

Oct 2013 — Feb 2017

Paderborn University

- Modeling
- Data Structures and Algorithms
- Fundamentals of Programming 1

## EDUCATION

### Ph.D. (Dr. rer. nat.) in Theoretical Computer Science

2018 — 2023

Paderborn University — Grade: magna cum laude (1.0)

Dissertation: "Local Protocols for Contracting and Expanding Robot Formation Problems"

### M.Sc. Computer Science

Oct 2015 — Oct 2017

Paderborn University — Grade: 1.0

### Semester Abroad

Jul 2016 — Dec 2016

University of Oklahoma

### B.Sc. Computer Science

Oct 2012 — Oct 2015

Paderborn University — Grade: 1.7

## CERTIFICATIONS

### Deep Learning Specialization

DeepLearning.AI

### Professional Scrum Product Owner I

Scrum.org

### Professional Scrum Master I

Scrum.org