

Elora Schoerverth

📍 Berlin, Germany in elora-schoerverth

Experience

Applied AI Engineer

Berlin, Germany

Workist

Oct 2023 - Now

- Collaborated on transitioning to a new token classification model, improving average F1 score from 0.86 to 0.93 through fine-tuning, training, and evaluation.
- Conducted experiments with models for object detection and document and email classification to expand and optimize AI capabilities.
- Enhanced machine learning monitoring pipelines to ensure model reliability and performance over time.
- Contributed to backend development, including bug fixes, post-processing improvements, and customer-specific adjustments.

Research Assistant

Berlin, Germany

Fraunhofer HHI

Jan 2022 - Mar 2023

- Conducted research for the SyReal project on generative models for synthetic histopathological imaging.
- Trained and evaluated diffusion models; developed interpretability methods to analyze the generative process using PyTorch and AWS SageMaker.
- Developed an XAI interface for diffusion models

Student Software Engineer

Berlin, Germany

Fraunhofer HHI

Oct 2020 - Dec 2021

- Led the development of an assessment platform for evaluating ML models in healthcare, integrated with ITU/WHO AI4H guidelines.
- Improved evaluation efficiency and reliability by enhancing platform capabilities.
- Technologies used: Python, AWS, Docker, Django, AngularJS.

Education

Technical University Berlin

Oct 2020 - Mar 2023

M.Sc. Computer Science

- Relevant coursework: Machine Intelligence, Advanced Algorithmics, Models of Higher Brain Functions
- Projects: Deep Q-learning, Detecting cerebral aneurysms in MRI images
- Master's thesis: "An XAI interface for diffusion models"
- Final grade: 1.2

Technical University Berlin

Oct 2017 - Sep 2020

B.Sc. Computer Science & Media

- Relevant coursework: Algorithms & Data Structures, Calculus and Linear Algebra, Complexity Theory, Computer Vision, Software Engineering
- Bachelor's thesis: "Development of a web application for supervising the development of Parkinson's disease in patients"

Technologies

Languages: Python, JavaScript, Bash

Data Science & Machine Learning: PyTorch, Transformers, NumPy, Pandas, Scikit-learn

Model Deployment & DevOps: Azure, AWS, Docker, Kubernetes, Git, CI/CD

Web Development: Django, React, Angular

Publications

Machine Learning for Health (ML4H) 2022.

Dec 2022

Parziale, A., Agrawal, M., Tang, S. et al.

<https://proceedings.mlr.press/v193/parziale22a.html> 

Machine Learning for Health: Algorithm Auditing & Quality Control. J Med Syst 45, 105

Nov 2021

Oala, L., Murchison, A.G., Balachandran, P. et al.

<https://doi.org/10.1007/s10916-021-01783-y> 