

**Address**

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GitHub

<https://github.com/sandordaroczi/>

Personal Website

sandordaroczi.github.io

TECHNICAL SKILLS

Programming Languages

- Python, R, Java, C++

Data Analysis and Visualization

- Pandas, R, SQL, Tableau, Matplotlib

Machine Learning / AI

- PyTorch, scikit-learn, Transformers

Version Control and Collaboration

- Git, GitHub, GitLab CI / CD

Other Tools

- Docker, HTML, Flask

LANGUAGES

- Hungarian - native
- English - fluent
- German - fluent
- Mandarin - intermediate

HOBBIES

- **Long-Distance Running:** Currently training for a marathon
- **Language Learning:** Started with Russian, learning Romanian and Mandarin
- **Classical music:** Playing violin and piano

SÁNDOR DARÓCZI

ABOUT ME

Aspiring Machine Learning specialist with a strong foundation in mathematics and a diverse portfolio of experience in deploying models for Predictive Modeling, Computer Vision, and Large Language Models to solve complex problems. Eager to apply cutting-edge ML techniques to real-world challenges and push the boundaries of innovation in Machine Learning and Data Science.

EDUCATION

Technical University of Munich

2021 - 2025

MSc Mathematics in Operations Research

- Focus Areas: Machine Learning, Deep Learning, Statistics, Optimization
- Achievements: DAAD Master's scholarship, Exchange semester in Taiwan
- Coursework: Advanced ML, Data Innovation Lab, Nonlinear Optimization
- GPA: 1.2

Eötvös Loránd University

2018 - 2021

BSc Mathematics

- Focus Areas: Graph Theory, Statistics, Algorithms, Theoretical Mathematics
- GPA: 1.0 (4.96/5.00 in the Hungarian system)

WORK EXPERIENCE

Master Thesis Student

Sep 2024 - Present

Pruna AI & Technical University of Munich

- Developing evaluation frameworks to measure the reliability of highly compressed language models
- Investigating the impact of quantization and pruning on LLM performance across various tasks

Working Student - Machine Learning Engineer

Feb 2024 - Present

Rohde & Schwarz GmbH & Co. KG.

- Built and validated a state-of-the-art Convolutional Neural Network (CNN) in PyTorch for an image generation task in Spectrum Monitoring

Working Student - Data Science

Oct 2022 - Mar 2023

Lidl Stiftung & Co. KG

- Implemented and evaluated multiple ML models (e.g., gradient boosting regression, neural networks) for large-scale retail data analytics including demand forecasting and price estimation
- Developed a robust uncertainty estimation framework to enhance predictive analytics, scaling for over 11,900 Lidl stores across 30+ countries

Intern - Data Science

Apr 2022 - Sep 2022

Spryfox GmbH

- Built a predictive model for long-term health risk assessment, leveraging scikit-learn and advanced statistical methods, and achieved an increase of 5% in prediction accuracy

PROFESSIONAL DEVELOPMENT

Private Math Tutor

- Providing tutoring to university and high school students, fostering a strong foundation in Mathematics

Former Exchange Student

- Studied Computer Science and completed a Chinese language course (HSK 2 level, A2)