



#### GitHub

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

#### Personal Website

[sandordaroczi.github.io](https://sandordaroczi.github.io)

## RELEVANT SKILLS

#### Programming

Python (advanced) • SQL • R • Java • C++

#### Data Analysis

Pandas • Numpy • Tableau • Matplotlib

#### Machine Learning / AI

PyTorch • scikit-learn • Transformers •  
HuggingFace • Model Compression

#### Cloud & DevOps

AWS • Terraform • Docker • MLflow •  
CI/CD

#### Data Engineering

ETL pipelines • MongoDB

#### Languages

English (fluent), German (fluent), Hungarian  
(native), Mandarin (intermediate)

## PROFESSIONAL DEVELOPMENT

#### Private Math Tutor (2018 - Present)

- Providing tutoring to university and high school students in Mathematics

#### Former Exchange Student (2023 - 2024)

- Studied Computer Science in Taiwan and completed a Chinese language course (HSK 2)

# SÁNDOR DARÓCZI

## ABOUT ME

Aspiring Data Scientist/Data Engineer with a strong foundation in mathematics, data science, and machine learning. Experienced in developing and deploying models for Predictive Modeling, Natural Language Processing, and Computer Vision. Passionate about applying cutting-edge Machine Learning techniques and data architectures to solve complex business problems.

## EDUCATION

#### Technical University of Munich

Oct 2021 - Mar 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 (German system)

#### Eötvös Loránd University

Sep 2018 - Jun 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 in Machine Learning

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 NLP tasks

#### Working Student in AI

Feb 2024 - Present

Rohde & Schwarz GmbH & Co. KG.

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

#### Working Student in 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

#### Data Science Intern

Apr 2022 - Sep 2022

Spryfox GmbH

- Developed, maintained, and validated a health risk prediction model using scikit-learn and advanced machine learning, improving accuracy by 5%

## HOBBIES

- **Sports:** Running, Boxing, Swimming
- **Languages:** Currently learning Mandarin and Spanish
- **Music:** Playing the violin and the piano