# Máté Fellner

Personal information:


Location: Budapest, Hungary
E-mail: fellner96@gmail.com
Phone: +36 30 857 9655
Date of birth: 1996.02.05.


Education:

2014 September - 2017 June
Eötvös Loránd University, Mathematics BSc (Mathematician)
2017 September - 2019 June
Eötvös Loránd University, Applied Mathematician Msc
specialization: operation research

Language:

native: Hungarian
other: English, B2 (complex)

I.T. skills:

- Python, Keras, Tensorflow, Sklearn, Pytorch, Data science toolbox, Django (SQLite) Computer Vision, Generative AI (Transformers, LLMs)
- Java, (Processing, AndroidStudio)
- Javascript, React-JS (Html, Css)
- Visual Studio Code, AWS Sagemaker, Git

Work experience:

2023 -
Research Consultant, Data Engineer, Törökbálint Center of Pulmonology:
- Designing data pipelines for prospective research
- Web development (React-JS, Python-Django) for intranet applications for patient data handling
- Applying statistics, data science methods and data visualization for medical research (Python, Sklearn)

2021 -
Lecturer, Eötvös Loránd University
- Python for data science (for Data Scientist Specialization)
- Thesis supervision (for Data Scientist Specialization)

2023 - 2024
Machine Learning Engineer, E-Stam Inc.:
- Computer Vision for optical character recognition and text processing
- Implementing and testing custom algorithms and data pipelines in item quality evaluation

2019 - 2023
AI Engineer, Lain Consulting Kft, worked on the following projects:
- Medical image processing, applying data engineering methods, and deep neural networks to develop tools for computer-aided cancer detection with Ulyssys Kft and Semmelweis University Department of

Radiology (2019-2022) (Python, Computer Vision, PyTorch, Tensorflow)
- Classification and segmentation of remote sensing (satellite) images with Ulyssys Kft (2022) (Python, Computer Vision, PyTorch, Tensorflow)
- Medical data processing for the National Korányi Institute of Pulmonology (2020) (Python, JS)
- Cancer cell simulations for the National Korányi Institue of Pulmonology (2021) (Python)

2020 - 2022

Lecturer, Eötvös Loránd University
- Mathematics (for Cognitive Neuroscience Masters)
- Intelligent Systems (for Cognitive Neuroscience Masters)

2018 - 2021
- Researcher, Eötvös Loránd University, PIT Bioinformatics Group
- Data science on networks (Python, Sklearn, Tensorflow)

2018
- Working student, Nokia Solutions and Networks, Telco Cloud Simulator, Java programming

Awards:

2018: Eötvös Loránd University, Faculty of Science, Scientific Conference of Students, First Prize (Supervisor: Vince Grolmusz)
2017: Eötvös Loránd University, Faculty of Science, Scientific Conference of Students, First Prize (Supervisor: Vince Grolmusz)

Scientific Papers:

M. Fellner, B. Varga, V. Grolmusz, The frequent subgraphs of the connectome of the human brain (2017, submitted, arXiv:1711.11314)
M. Fellner, B. Varga, V. Grolmusz, The frequent network neighborhood mapping of the human hippocampus shows much more frequent neighbor sets in males than in females (2018, submitted, arXiv: 1811.07423)
M. Fellner, B. Varga, V.Grolmusz, The Frequent Complete Subgraphs in the Human Connectome (2019, submitted, arXib:1903:05979)
M. Fellner, B. Varga, V.Grolmusz, Good Neighbors, Bad Neighbors: The Frequent Network Neighborhood Mapping of the Hippocampus Enlightens Several Structural Factors of the Human Intelligence on a 414-Subject Cohort (2019, submitted, arXib:1907.09586 )

Scientific reports:

Modelling drilling cuttings formation (Ana Branca, Mate Fellner, Katarina Dzepina, Georg Bökman, Tobias Krenz, Supervisor: Tatiana Pogarskaia, University of Novi Sad, European Consortium for Mathematics in Industry, 2018)