

Anikó Kopacz

LinkedIn
Google Scholar

EDUCATION

- Institute for Doctoral Studies, Babeş-Bolyai University** Cluj-Napoca, Romania
PhD Student in Computer Science 2021 – Present
- Research interests: multi-agent systems, complex networks, machine learning, reinforcement learning
 - Member of the Metaheuristics for Complex Systems Research Group
- Babeş-Bolyai University** Cluj-Napoca, Romania
MSc in Data Analysis and Modeling 2018 – 2020
- Significant Coursework: Introduction to Machine Learning, Advanced Machine Learning, Robotics and Embedded System Programming, Data Visualization Methods
 - MSc Thesis: Testing reinforcement learning for scheduling
- Babeş-Bolyai University** Cluj-Napoca, Romania
BSc in Computer Science 2015 – 2018
- Significant Coursework: Algorithms and Data Structures, Advanced Programming Methods, Artificial Intelligence, Software Engineering, Information Theory
 - BSc Thesis: Algorithms for the minimum vertex cover problem

EXPERIENCE

- Assistant** Oct. 2025 - present
Babeş-Bolyai University Cluj-Napoca, Romania
- Fall semester: Formal languages and compiler techniques
 - Spring semester: Artificial Intelligence
- Research assistant** Jul. 2025. – present
Babeş-Bolyai University Cluj-Napoca, Romania
- Project: “Romanian Hub for Artificial Intelligence - HRIA”, Smart Growth, Digitization and Financial Instruments Program
- Machine Learning Engineer** Oct. 2023 – Oct. 2025
Connatix Cluj-Napoca, Romania
- Designing and delivering proof of concepts for ad-tech, key projects: bid price optimization, traffic shaping.
 - Responsible for implementing new features and maintaining deep machine learning model using TensorFlow
 - Evaluating the performance of machine learning models with A/B testing
 - Hands on experience with the Elastic Stack and monitoring business metrics using Kibana
- Research assistant** Nov. 2022 – Jan. 2023
Babeş-Bolyai University Cluj-Napoca, Romania
- Project: Promoting Sustainability as a Fundamental Driver in Software Development Training and Education (Sustainable)
- Teaching Assistant** Oct. 2021 - May 2024
Babeş-Bolyai University Cluj-Napoca, Romania
- Fall semester: Computational Logic, Formal languages and compiler techniques
 - Spring semester: Artificial Intelligence
- Security Researcher** Oct. 2021 – Sept. 2023
Bitdefender Cluj-Napoca, Romania
- Responsible for developing a stand-alone component in Python which focused on extracting features from large semi-structured data sets and targeting outlier identification
 - Analyzing customer data and delivering robust features to enhance network threat prevention

Junior Software Engineer

Jul. 2021 – Sept. 2021

*Bitdefender**Cluj-Napoca, Romania*

- Tasked with designing and developing a system based on unsupervised machine learning with the goal of improve customer satisfaction

Research Engineer

Sep. 2020 – Mar. 2021

*Széchenyi István University**Győr, Hungary*

- Participated in a research project investigating the efficiency of machine learning approaches for the train rescheduling problem
- Implemented reinforcement learning based approaches to handle the navigation and scheduling of multiple trains
- Validated the performance of customized machine learning approaches in simulated environments

Working student/trainee, Software Developer

Jul. 2017 – Sep. 2017

*Nokia Solutions and Networks Kft.**Budapest, Hungary*

- Delivered an interactive website with several functionalities, including developing a visualization tool for structured databases
- Collaborated with project team members and stake-holders in order to assess and implement complex tasks

TECHNICAL SKILLS

Languages: Python, C/C++, Bash**Developer Tools:** Git, Docker, Tensorboard, Jupyter, Conda, Poetry**Libraries:** PyTorch, TorchRL, NumPy, Matplotlib, TensorFlow, Keras