

Sandro Paradžik

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in sandropa

Experience

AI/ML Engineer Intern: ModelCat

Sarajevo, Aug 2025 – Apr 2026

- Designed a data-efficient simulation framework for **uncertainty quantification**, utilizing probabilistic modeling and statistical estimation techniques to predict on-device model performance and reduce reliance on exhaustive hardware inference.
- Contributed to the broader ML pipeline: trained models for product demos, built internal tooling for automated dataset downloading and format conversion, and resolved various bugs across the codebase.

Research Intern: Max Planck Institute

Tübingen, Jul – Sep 2024

- Applied **Dynamic Mode Decomposition** to analyze zebrafish calcium imaging data, identifying functional subnetworks and spatiotemporal patterns, and demonstrated its advantages over traditional methods such as PCA and ICA.
- Selected for a highly competitive program with a **1.35%** acceptance rate in 2024.

Lecturer: Mathematical Olympiad Training Program

Sarajevo, 2022 – Present

- Deliver lectures on **olympiad-level combinatorics** and advanced problem-solving strategies.
- Program participants consistently achieve medals at international competitions.

Education

BSc in Computer Science: University of Sarajevo

GPA 8.2/10, Oct 2021 – Sep 2025

BOLD Regional Workshop on Entrepreneurship

Belgrade, 4-11 Jun 2026

Mediterranean Machine Learning Summer School

Split, 8-12 Sep 2025

Eastern European Machine Learning Summer School

Sarajevo, 21-26 Jul 2025

Skills

Programming

Python (NumPy, SciPy, scikit-learn, PyTorch, TensorFlow, Pandas, FastAPI), C++, SQL, Git, Linux/Bash, Docker, LaTeX

Languages

Bosnian (native), English (C1)

Awards

Mediterranean Mathematics Competition: **Bronze**

2021

Federal Mathematics Competition of FBiH: Ranked **1st**

2019

Scholarships & Fellowships: **Atlantbh, ZIRA, BH Futures Foundation**

2021/22, 2022/23, 2023–25