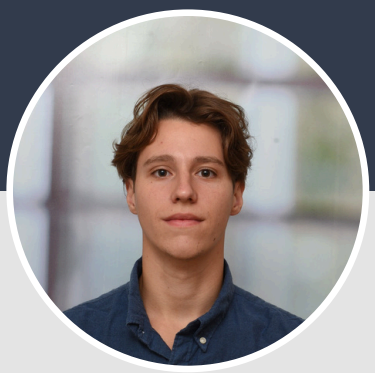

MATYAS IRAS

DATA SCIENTIST

CONTACT

+36203125110
iras.matyi@gmail.com
Amsterdam, Netherlands

SKILLS

- Programming: Python, SQL, R
- Data Analysis & Visualization: Pandas, NumPy, Seaborn, Matplotlib
- Machine Learning: Scikit-learn, XGBoost, TensorFlow
- Version Control: Git, Shell scripting
- Statistics
- HPC: SLURM cluster computing
- Pipeline Development
- ETL/ELT pipelines
- Databases: Relational (SQL)

SOFT SKILLS

- Analytical Thinking
- Problem Solving
- Independent
- Collaborative
- Quick learner

LANGUAGES

- Hungarian (Native)
- English (Fluent)
- German (Basic)

PUBLICATIONS

"Cholinergic regulation of dendritic Ca2+ spikes controls firing mode of hippocampal CA3 pyramidal neurons,"

PNAS, 2024,
DOI: 10.1073/pnas.2321501121.

PROFILE

Innovative Data Scientist with a robust research background and proven independence in tackling complex problems. With hands-on experience building scalable Python pipelines and applying advanced machine learning to large datasets, I've honed my analytical rigor through research in healthcare and immunotherapy. Now, I'm eager to apply these skills in dynamic environments where data-driven solutions create real-world impact.

WORK EXPERIENCE

Data Scientist Aug. 2024 - June 2025
Netherlands Cancer Institute (Full-Time)

- Engineered robust Python pipelines for preprocessing and analysis of high-dimensional healthcare datasets leveraging SLURM HPC cluster computing to optimize workflow efficiency and scalability.
- Applied machine learning techniques and statistical methods to identify actionable patterns and support data-driven decision-making.
- Streamlined data integration, feature engineering, and model evaluation processes through workflow automation.
- Collaborated with cross-functional teams to translate data insights into strategic decisions for research and clinical priorities.

Teaching Assistant - Data Mining Techniques Mar. 2025 - June 2025
Vrije Universiteit Amsterdam (Part-Time)

- Guided master's students in applying data mining techniques (e.g., classification, clustering, feature engineering) using Python.
- Assessed assignments and provided targeted technical feedback.

Neuroscience Research and Data Analyst Sept. 2021 - Aug. 2023
Institute of Experimental Medicine, Budapest

- Conducted patch-clamp recordings and two-photon Ca^{2+} imaging, producing high-quality electrophysiological datasets.
- Analyzed experimental data using Python and statistical methods to explore links between dendritic activity and neuronal structure.
- Improved data management and reproducibility through SQL and Python-based workflows.

EDUCATION

Master of Science in Bioinformatics and Systems Biology 2023 - 2025
Faculty of Science | University of Amsterdam, Netherlands

Bachelor of Science in Molecular Bionics Engineering 2019 - 2023
Faculty of Information Technology and Bionics | Pázmány Péter Catholic University, Hungary
GPA: 4.11 / 5.0