

Agata Mosińska

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ABOUT ME

I am a recent Master's graduate in Artificial Intelligence with hands-on expertise in MRI and EEG data analysis. I have combined my knowledge of neuroimaging pipelines and strong programming skills while collaborating across interdisciplinary, multinational teams. I am passionate about integrating AI research with clinical tools, particularly in medical diagnosis.

EDUCATION

Technical University of Catalonia

MSc, Artificial Intelligence

September 2023 – June 2025

Barcelona, Spain

- Thesis: Developed an uncertainty-aware ensemble of deep learning models for brain tumor segmentation on the BraTS 2021 dataset, producing uncertainty maps to support clinical decision-making (grade 10/10).
- GPA 8.89/10; NTT DATA Scholarship (2023/2024), Allianz Technology Scholarship (2024/2025).

Tilburg University

BSc, Cognitive Science and Artificial Intelligence

August 2020 – August 2023

Tilburg, The Netherlands

- Minor in Data Science at the Eindhoven University of Technology
- Thesis: EEG hyperscanning study on smartphone distraction and mother–infant neural synchrony (grade 8.5/10).
- GPA 8.94/10, graduated *cum laude*.

WORK EXPERIENCE

DL Network Analytics

April 2023 – Present

Data Analyst

- Developed a Python-based Retrieval-Augmented Generation (RAG) pipeline to extract and classify actionable insights from employee survey data across 5 companies, improving decision-making efficiency for HR teams.
- Applied integer-linear programming (Gurobi) to identify key influencers in organizational networks, enabling targeted communication strategies.

Tilburg University

June 2023 – August 2023

Research Assistant

- Developed EEG preprocessing and phase-synchronization analysis workflows (MNE-Python) to quantify mother–infant brain-to-brain synchrony under the mother’s smartphone distraction.
- Authored and presented research findings at the 19th NVP Winter Conference on Brain and Cognition (2023).

Microsoft**September 2022 – February 2023***Cloud Solution Architect Intern*

- Collaborated with the Data & AI team to develop end-to-end Azure solutions for enterprise clients.
- Built a fraud detection model in Azure ML Studio to identify and prevent fraudulent activities on Microsoft Azure, improving detection accuracy and reducing false positives.

Tilburg University**January 2022 – June 2022***Research Internship*

- Collected and analyzed music-perception data using Python and R, applying statistical modeling and data visualization techniques.
- Co-authored and presented research at the International Conference on Music Perception and Cognition (Tokyo, 2022).

CERTIFICATIONS & SKILLS

- **Certifications:** Microsoft Azure Fundamentals, Microsoft Azure AI Fundamentals
- **Skills:** Python, PyTorch, TensorFlow, NumPy, Pandas, Scikit-Learn, DICOM/NIFTI handling, MONAI, FSL, Nibabel, Azure ML, Git/GitHub, MATLAB, R, SQL, deep learning techniques
- **Languages:** Polish (native), English (fluent), Spanish (intermediate)

I consent to the processing of my personal data contained in the job application for the purposes necessary for the recruitment process (in accordance with the Personal Data Protection Act, Journal of Laws 2002, No. 101, item 926, as amended).