

+393478198981
Trieste, Italy
matejkalc99@protonmail.com

Matej Kalc

ML/AI engineer

Portfolio: matejkalc.com
github.com/KalcMatej99
linkedin.com/in/matej-kalc-8122b5164

ML/AI Engineer (4+ yrs) building production ML systems; specialized in graph neural networks (GNNs) and generative-AI applications.

TECHNICAL EXPERIENCE

ML/AI engineer - Team lead

NLB d.d.

2025-4 — present

Ljubljana, Slovenia

- Led a student team to build an agentic document-validation solution with orchestration and validation checkpoints; reduced manual effort by 1,000+ hours/year.
- Shipped an Agentic AI report generator using web search, RAG, deep search, and image generation.
- Built dynamic GNNs for anti-money-laundering (AML) monitoring.

Founder

Timeo (timeoschedule.com)

2025-8 — present

Trieste, Italy

- Launched an optimization-based scheduling tool for your business; generates compliant schedules in seconds.
- For pilot users, cut schedule preparation time from ~3 hours to ~20 minutes.

Data Scientist

Zurich insurance group

2024-11 — 2025-4

Ljubljana, Slovenia

- Led the implementation of graph neural networks for automobile insurance fraud detection increasing performance of the current model in production by 20% for a single BU.
- Designed and developed Databricks workflows to automate ML pipeline replacing the older model inference setup by reducing inference time by 75% for prediction in batches.

Data Scientist (Student)

Medius.si d.o.o.

2023-8 — 2024-10

Ljubljana, Slovenia

- Developed a python package for forecasting the biggest solar power plant production in Slovenia using Recurrent neural networks in Torch, which improved one day ahead forecasts by 25%.

EDUCATION

Master of Science in Data Science, Faculty of Computer and Information Science in Ljubljana, GPA 9.0

2021 — 2024

Bachelor of Science in Computer Science, Faculty of Computer and Information Science in Ljubljana, GPA 9.1

2018 — 2021

MACHINE LEARNING COMPETITIONS

Data Science Hackathon (1. place)

Etrek - Sustainable EV Charging Solutions

2023-3

Portorož, Slovenia

- I won first place at a hackathon organized by Etrek (leading EV charging solutions in Slovenia) by developing automatic Clustering of their EV stations using k-means clustering and PCA decomposition, which gave to the board important insights on the types of stations they have and in which areas they can improve

NLP competition: Word Sense disambiguation (1. place)

Faculty of Computer and Information Science

2022-5

Ljubljana, Slovenia

- Led team of three students to fine-tune SloBERTa (LLM) for word sense disambiguation for the Slovenian language. Example of disambiguation of word bank: "I went to the bank to deposit my paycheck." vs "The boat was docked on the bank of the river." Our work was cited by the current professor of NLP at the faculty in one of its latest papers.

Data Science Project Competition (3. place)

Faculty of Computer and Information Science

2022-2 — 2022-6

Ljubljana, Slovenia

- In a team of three and in collaboration with the company CreaPro we developed a stock optimization system based on sales forecasting using deep neural networks.
- The final solution resulted in a 10% decrease in RMSE when compared to the internal solution of the company.

Data Science Project Competition (3. place)

Faculty of Computer and Information Science

2021-2 — 2021-9

Ljubljana, Slovenia

- As an undergraduate student I was invited to participate with masters degree students to implement deep neural networks and factorization machines for Click Through Rate (CTR) Prediction with Outbrain
- We implemented and compared 10+ Factorization Machine and Neural Network models for CTR prediction on the same data set.

ACTIVITIES

Secretary at Osnovna Organizacija Zamejskih Učiteljev Smučanja (OoZUS)

2021 — 2025

Vice president at SK Brdina, Italy (Developed custom web page in Angular: brdina.org)

2021 — 2023

Ski teacher at SK Brdina, Italy

2017 — present

Boarding officer at SK Brdina, Italy

2017 — 2023