



# Aleksander Piciga

Mathematics in Data Science  
MSc. @ TUM

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## ABOUT ME

AI and Data Science Engineer with 4+ years of industry and academic experience. I quickly adapt to new environments - worked for large corporations, research institutes, and start-ups. Bringing together the top 5% academic performance with 9+ years of coding experience to come up with and implement exciting new ideas. Already awarded 1st place in hackathon challenges as well as in international competitions. Always looking to go the extra mile.

## LANGUAGES

Slovenian (native)

English (C2)

German (B1)

## PROGRAMMING

Python \*\*\*

Go \*\*\*

SQL \*\*\*

C++ \*\*

R \*

C# \*

Java \*

## DEVOPS

Docker

Command Line Tools

Windows/Linux Servers

GitLab/GitHub

CI/CD Pipelines

Network/Remote Access

Diverse Databases

## EDUCATION

OCT  
2024

### Technical University of Munich – M.Sc

Mathematics in Data Science, Munich – Germany

- Topics: AI, ML, Deep Learning, and related Mathematics
- Courses:
  - Introduction to Deep Learning
  - Machine Learning
  - Foundations of Data Engineering
  - Generalized Linear Models
- GPA (best 1.0 – 5.0): 1.0
- Programming Languages: Python, R, C++, SQL

OCT  
2020  
-  
AUG  
2024

### University of Ljubljana – B.Sc.

Mathematics and Computer Science, Ljubljana – Slovenia

- Topics: Analysis, Linear Algebra, Probability and Statistics, Algorithms and Data Structures, Databases, Programming
- Main Interest:
  - Intelligent Systems
  - Computer Vision
  - Machine Learning with Graphs
  - Introduction to Artificial Intelligence
- GPA (best 10.0 – 5.0): 8.8
- Programming Languages: Python, C++, Java, SQL

## PROFESSIONAL DEVELOPMENT

### CONFERENCE – Network of Knowledge

- Slovenian National Supercomputing Network (SLING)
- European High-Performance Computing (EuroHPC)
- Learned how to access and use HPC networks to create and manage task execution (Training Large AI Models)

### SUMMER SCHOOL – European Summer School on AI

- Advanced Education Courses in AutoML, Continuous Learning for Image Classification, Knowledge Representation and Reasoning in Ontologies
- A broad set of interesting cutting-edge AI Topics with a wide array of industry and academic professionals

### CONFERENCE – Slovenian KDD Conference

- Statistical Data Analysis, Link Detection, Link Analysis, Social Network Analysis, and Data Mining
- PRESENTED PAPER: [Structure-Based Molecular Fingerprint Prediction through Spec2Vec Embedding of GC-ESI-MS Spectra](#)

PROJECTS

AI Bird Migration Tracking

Using Computer Vision for Species Recognition on Bird Feeders  
Bronze Medal, Science, New York – USA

PM Particle Station

Designed and Built Stations for PM detection, health related  
Gold Medal, Business, New York – USA

Incentivized Data Platform

Blockchain Incentivized Data and Model Platform with Verifiable AI  
Best Starknet and Avail Project Runner Up AI Integration, Filecoin London, United Kingdom

Digitalization of Housing Offers

A Solana-based platform with consensus-based rewards for publishing offline housing flyers, primarily aimed at helping with student housing.  
HackaTUM, München Germany

LLM Augmented Hotel Search

Project for CHECK24 the largest German Application Portal. Improved Hotel Search on Diverse Filters and User Wishes  
4th Place at TUM.ai Makeathon, München, Germany

SCHOLARSHIPS

Ad Futura (Exceptional Slovenians Abroad)

Deutschland Stipendium

Zois University (Exceptional Students)

Zois Highschool (Exceptional Highschool Students)

HOBBIES

Chess

Skiing

Running

PROFESSIONAL EXPERIENCE

FEB

2024

-

JUL

2024

Siemens – DAAI, Semantics and Reasoning

- Topics: Natural Language Processing, Automated Code Generation, Automated Testing, Simulation Environments, Large Language Models
- Value: Reduces costs through automated PLC code testing in simulation environments. Improves company-wide code quality and prevents PLC errors in production.
- Experience: C# programming, TIA Portal, prompt engineering, and common pitfalls of deploying LLMs in production.

APR

2023

-

JUN

2024

DataFund – Data Scientist

- Topics: Image Segmentation, Computer Vision, Healthcare, Annotation Tools
- Value: Currently, bone marrow cells are counted manually from scans. Our AI-powered method reduces waiting times from months to weeks.
- Experience: Python, Few-Shot Fine-tuning, Database Design, React for Frontend Annotation Tool

JUN

2023

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FEB

2024

Jožef Stefan Institute – Student Researcher

- Topics: Multi-Label Classification, Traditional ML Methods, Mass Spectrometry
- Value: Exploring approaches of molecular fingerprint prediction on novel embedding technique spec2vec.
- Experience: Conference Paper Presentation, Research Workflow, Reproducibility of Results, Python

JUN

2020

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AUG

2023

Izstop – Backend Engineer

- Topics: Central Education Registry, Largest Slovenian eAuction Platform, Augmented Reality Control Software
- Value: Re-implemented [Central Education Registry](#) – Significantly Optimizing DB Queries, Design, and Code Speed. Designed the Backend Logic, Flow, and Database for [eDrazbe.si](#), the largest Slovenian eAuction Platform. Designed Async Control for Virtual Tourist Experience.
- Experience: GoLang, SQL, Database Design, Backend Design, OOP, Interfaces, Query/DB Optimization, Async Programming

Munich, June 4th 2026  
Aleksander Piciga

