



DIANA MARUSIC

PROFESSIONAL EXPERIENCE

Machine Learning Engineer - AIDY Health

May 2024-present

Engineered innovative healthcare applications using Generative AI, including training of custom LLMs and SLMs. Demonstrated expertise in Neural Networks, Prompt Engineering and more.

Working Student - Web Developer - Hildesheim Universität

June 2022 - September 2023

Implemented the Cu2RVE project website - full-stack - using technologies like FastAPI and Vue.js. Collaborated in an Agile environment and ensured efficient delivery of project milestones.

Teaching Assistant - Technical University of Moldova

September 2021 - December 2023

Instructed more than 100 students in seminars and laboratory sessions for the Fundamentals of Artificial Intelligence course.

Machine Learning Engineer - Billheap

July 2020 - October 2021


Developed an AI-based platform for invoice data extraction using advanced machine learning algorithms for information retrieval, NLP, OCR, and image recognition. Built and deployed a web platform with backend and frontend components, integrating Docker, and improved the UI for clear data insights and statistics.

Junior Web Developer - UPDIVISION

April 2017 - October 2021

Created full-stack websites for clients in various industries, handling both frontend and backend development.

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EDUCATION

Universität Hildesheim

Master in Data Analytics

Oct 2021 - Oct 2023

Technical University of Moldova

Bachelor in Software Engineering

Sep 2018 - June 2021

LANGUAGES

- English (C2)
- German (B2)
- Russian (C1)
- Romanian (native)

SOFT SKILLS

- Quick learner
- Problem solver
- Effective communicator
- Team player
- Adaptable to new environments
- Innovative thinker
- Critical thinking
- Time management

TECHNICAL EXPERTISE

- | | |
|--------------------------|------------------------|
| • Machine Learning, AI | • Python |
| • GenerativeAI | • JavaScript |
| • Deep Learning | • C, |
| • Data visualisation | • C++ |
| • LLMs, SLMs | • R |
| • Prompt Engineering | • FastAPI, Flask |
| • Computer Vision | • MongoDB |
| • Reinforcement Learning | • SQL |
| • Explainable AI | • HTML, CSS, Bootstrap |
| • Keras, Tensorflow | • Vue.js |
| • PyTorch | • Golang |
| • HuggingFace | • Docker |
| • Matplotlib, pandas | • Github |

PROJECTS

Optimizing TSP solutions with subgraph decomposition and Reinforcement Learning

January 2022 - September 2023

Developed a hybrid algorithm for solving the Travelling Salesman Problem with Reinforcement Learning and unsupervised methods, able to scale to up to 1.9 million nodes TSP

Multivariate Probabilistic Time Series Forecasting for Energy Consumption

February 2022 - June 2023

In a team of 5 people, we developed the model "TransformerGrad", based on Deep Learning models such as TimeGrad, Autoformer, RNN, Generative models, N-HITS, etc. for energy consumption prediction (as part of the Master's degree at Universität Hildesheim)

AI system for recommending similar posts about lost and found pets

September 2020 - June 2021

Project developed as part of my bachelor thesis, and it was applied to match similar posts about lost and found pets. It used CNNs for image similarity and a NLP techniques for text similarity.

System for recognizing data from ID cards

Spring 2021

Developed a system for extracting essential information from ID cards using OCR models and advanced image processing techniques.

[explore more projects on Github: https://github.com/mdiannna](https://github.com/mdiannna)

AWARDS

"Sympathy of the Public" award in "Best Student Project in Science and Innovation" competition (European Researchers' Night)

November 2020, Moldova

\$600 prize at JSHacks - the AI edition hackathon

May 2018, Romania

2nd Place at Textract Hackathon organised by Sparktech Romania

December 2018, Romania

Technovation Challenge Semifinalist - 1st place in National Competition, Moldova

Visitor Team to the final competition, USA

November 2020, Moldova

Intel International Science and Engineering Fair (ISEF) Special Award - Open Source Award from GoDaddy

May 2016, USA

Intel International Science and Engineering Fair (ISEF) Grand Award 4th Place

May 2015, USA

PUBLIC SPEAKING AND VOLUNTEERING

Operational Support Team Member at "Artificial Intelligence in Action", Moldova

July 2019 - present

Contributed to the establishment and growth of Moldova's first Artificial Intelligence community.

Trainer at the GirlsGoIT program, Moldova

June 2017 - September 2021

Educated more than 100 young women about Data Science, Web Development and Robotics.

Speaker at TEDx RoseValleyParkED, Moldova

February 2021

Delivered a speech about various field of AI, diverse applications and innovative initiatives in Moldova.