

Maksim Sapronov

Czech, Prague

Internship or Junior Part-time position as

Data Scientist/Analyst or Machine Learning Engineer

✉ maxim.sap.2021@gmail.com

☎ +420 773 463 885

🐙 GitHub

🌐 LinkedIn

SKILLS AND TOOLS

Programming Languages: Python, R, C/C++

Classic ML: Pandas, NumPy, Scikit-learn

DL: PyTorch, Hugging Face Ecosystem

Visualization: Matplotlib, Seaborn, Plotly

Databases: PostgreSQL

Tools: JupyterLab, L^AT_EX, Wolfram Mathematica

Other: Data Structures & Algorithms, Linux, Git

Languages: English (B2), Czech (B1), Russian (native)

Theory: Most popular ML models and DL architectures, linear algebra, calculus, probability theory and statistics

PERSONAL PROJECTS

• Tensor-valued autograd engine (kittygrad) [↗](#)

A small NumPy-based deep learning library with PyTorch-like API

- Autograd engine (with 25+ operations)
- Computational graph visualization
- Custom functions support

• Adaptive Instance Normalization implementation [↗](#)

Unofficial PyTorch implementation of the Arbitrary Style Transfer in Real-time with Adaptive Instance Normalization paper

- Code for model training
- Playground

• PyTorch Word2Vec implementation [↗](#)

Unofficial implementation of the Efficient Estimation of Word Representations in Vector Space paper

- Skip-gram Model
- Code for model training
- Playground, cluster analysis

• Kotlin Code Completion with Phi-1 Transformer [↗](#)

SLM fine-tuning for code completion task

- Dataset creation
- Adaptation of the model to the task
- Fine-tuning using QLoRA
- Beam search implementation

• Malaria cell image classification [↗](#)

Classification of malaria cell images using a simple CNN with PyTorch

- Code for model training
- Visualizations

EDUCATION

• Bachelor of Artificial Intelligence (GPA 3.51)

2022-25 (expected)

Faculty of Information Technology, CTU in Prague

Relevant courses:

- Linear algebra, Calculus, Selected mathematical methods
- Probability and Statistics, Practical statistics
- Data visualization, Machine learning, Introduction to Artificial intelligence
- Programming in Python, Database Systems, Computer networks