Maksim Sapronov

Czech, Prague
Internship or Junior Part-time position as
Data Scientist/Analyst or Machine Learning Engineer

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SKILLS AND TOOLS

Programming Languages: Python, R, C/C++ basics
Classic ML: Pandas, NumPy, Scikit-learn
DL: PyTorch, Hugging Face Transformers
Visualization: Matplotlib, Seaborn, Plotly
Databases: PostgreSQL
Tools: JupyterLab, LaTeX, 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 training
  – Playground

• **PyTorch Word2Vec implementation**

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

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

• **Malaria cell image classification**

Classification of malaria cell images using a simple CNN with PyTorch

  – Code for training
  – Visualizations

EDUCATION

• **Bachelor of Artificial Intelligence**   *2022-25 (expected)*
Faculty of Information Technology, CTU in Prague