

Kirill Madorskii

MIPT undergraduate
Bachelor of Applied Mathematics & Physics

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spike-18

PROFILE

- Fourth-year MIPT student
- Successfully finished Machine Learning course
- Achieved excellent marks as team lead in Computer Science group projects
- Looking for research opportunities or internships in applied ML or data-driven systems

EDUCATION

Bachelor of Applied Mathematics & Physics 2022 – 2026
MIPT – Department of Radio Engineering and Cybernetics

- GPA: 8.5/10.0
- GPA (Computer Science): 8.8/10.0

EXPERIENCE

MIPT Wave Lab Moscow, Russia
Intern July-September 2024

- Optimized and refactored code for StarKit robots (motion, algorithm verification).

MAIN PROJECTS

comp_math (github.com/spike-18/comp_math) 2025
Tools: C++, CMake, Doxygen, Python

- C++ library providing various tools for computational mathematics tasks.

image-resampler (github.com/spike-18/image-resampler) 2025
Tools: Python, Poetry, Nox, Sphinx

- Designed CLI + GUI toolkit offering image interpolation methods.


EasyTensor (github.com/spike-18/EasyTensor) 2025
Tools: C++, CMake, POSIX


- Built mini tensor-compiler in C++ for Neural Network optimization.


PoetRNN (github.com/spike-18/PoetRNN) 2024
Tools: Jupyter Notebook, PyTorch, NumPy, Matplotlib

- Implemented character-level RNN/LSTM for poetry generation with custom data pipeline and evaluation.

SKILLS

 C/C++ · x86-64 Assembly
Python · CMake · Git
Linux · LaTeX · perf
Poetry · PyTorch

 English · advanced
Russian · native

 flexibility · conflict resolution
problem-solving · leadership
adaptability · responsibility

INTERESTS

- Data Science
- ML, DL
- Artificial Intelligence
- Research
- Functional Programming

COURSEWORK

- Algorithms and Data Structures
- Machine Learning
- Linear Algebra
- Probability Theory, Statistics
- Operating Systems, Computer Architecture
- Compiler Technology
- Computational Mathematics
- Quantum Mechanics, Physics

ACHIEVEMENTS

2025 **Winner's diploma**
MIPT 'Space' Hackathon

2022 **2nd degree diploma**
MIPT 'Phystech' Olympiad