

# Kirill Madorskii

MIPT undergraduate  
Bachelor of Applied Mathematics & Physics

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spike-18

## PROFILE

- Third-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

**IITP** Moscow, Russia  
Data Scientist, Intern July-September 2024

- Researched the coherence between nuclear explosions and recorded earthquakes (ANSS, ISC).
- Implemented several methods for analyzing earthquake catalogs.

## MAIN PROJECTS

**comp\_math** (github.com/spike-18/comp\_math)  
Tools: C++, CMake, Doxygen, Python 2025

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

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

- Designed CLI + GUI toolkit offering image interpolation methods.


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


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


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

- 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