

KROO DMITRY

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EDUCATION

Moscow Institute of Physics and Technology (MIPT)

2018 - Present

BSc in Applied Mathematics and Computer Science

- *Top-1 Russian university* in Computer Science (THE University Rankings) with intensive training in mathematics, algorithms and data science.
- *Relevant Courses:* Probability Theory, Python, Object-Oriented Programming on C++, Algorithms and Data Structures
- Attending *Data Science Group*: two-year intensive training in ML and Applied Statistics

WORK EXPERIENCE

Huawei Russian Research Institutes

Jul 2020 - Dec 2020

Junior Engineer (Point Cloud Compression)

- Got familiar with existing Python codec testing codebase and developed a remote test monitoring system under company's strict network regulations.
- Learned basic methods of lossless compression and their use in PCC. Explored Google Draco and MPEG TMC13 C++ code and compression/decompression pipelines, wrote testing scripts for Draco, ran tests and analyzed results.
- Developed an prediction algorithm for raw LiDAR data compression, which provided more than 2x reduction in size. Experimented with data representations for subsequent entropy compression.

SKILLS

Programming Languages: Python, C++, SQL

Data Analysis: NumPy, Pandas, SciPy, Statsmodels, Matplotlib

ML: Scikit-learn, PyTorch, CatBoost

Other Software: git, Linux, PowerShell, MS Office

Languages: Russian (Native), English (B2)

ACHIEVEMENTS

- Finalist / Top 50 of ~ 3000 participants on **Yandex.Cup** (Analytics), 2020
- Winning team / Top 1 of 6 teams on **MIPT Endowment Fund Hackathon**, 2020
- Finalist on **Unilever Chain Reaction Hack**, 2019
- 1st prize / Top 8 of 963 participants in **Kurchatov Olympiad in Mathematics**, 2018
- 2nd prize / Top 30 of 662 participants in **Moscow Mathematical Olympiad** and other math olympiads, 2018

ACADEMIC INTERESTS

Algorithm Theory, Machine Learning, 3D Programming

OTHER ACADEMIC ACTIVITIES

DeepLearning.AI Tensorflow Developer Certificate (*online on Coursera*)

"Data Science in Consulting" by McKinsey&Company (*offline course*)

Attended RAII Summer School on Artificial Intelligence 2019