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, Mathematical Statistics, Basics of Applied Statistics, Python, Object-Oriented Programming on C++, Algorithms and Data Structures

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

ML & Data Analysis: NumPy, Pandas, SciPy, Statsmodels, SciKit-Learn, MatPlotLib and others

Databases: Postgres, Greenplum

Other Software: git, Linux, PowerShell, MS Office, LaTeX, Photoshop, SketchUp

Languages: Russian (Native), English (B2)

ACHIEVEMENTS

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

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