

Ruslan Gunaev

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EDUCATION

Moscow Institute of Physics and Technology

Moscow, Russia

Department of Control and Applied Mathematics (GPA: 4.85/5.0)

2017 - 2021

S.D., Intellectual Data Analysis

PROJECTS

ReactionYieldPrediction (PyTorch, DGL, RDKit)

Feb 2020

- Built Relational Graph Convolution Neural Network to predict reaction yield.
- Tested several different models using expert knowledge in chemistry.
- Proposed to cluster chemical reactions to increase the quality of the model.

Optimization methods (Python)

Apr 2020

- Implemented methods for improving the quality of classification models(LogisticRegression, SVM).
- ADMM, Smoothing Technique, Projection of gradients outperformed the original Sklearn implementations on several datasets.

ACHIEVEMENTS

Olympiads

- MIPT Discrete mathematics Olympiad
- Olympiad "I am a Professional" in mathematics

Medalist (May 2019)

Medalist (Jan 2020)

KEY SKILLS

Programming Languages

Python, C++, LaTeX

Software Engineering Tools

SQL, Git, Linux

Data Science

Sklearn, XGBoost, PyTorch

Other

English(upper-intermediate), Russian(native)

EXTRA INFORMATION

Former Player of FC Ufa

- Participants of the all-Russian tournament

Sep 2015

Scientific Interests

- Applied Mathematics, Discrete Mathematics,
- Computer Science, Machine Learning.

Grant

- Grant of the President of the Russian Federation

2017-2021

School Olympiads

- Moscow Mathematical Olympiad
- Regional stage Russian School Olympiad in mathematics and physics
- MIPT, Lomonosov Olympiad in mathematics

Medalist (2016)

Medalist (2016-2017)

Winner (2017)