# Ruslan Gunaev

Moscow, Russia

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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           Medalist (May 2019)
- Olympiad "I am a Professional" in mathematics           Medalist (Jan 2020)

## KEY SKILLS

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|---|---|
| **Programming Languages** | Python,C++,Bash, LaTex |
| **Software Engineering Tools** | SQL, Hadoop, 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           Medalist (2016)
- Regional stage Russian School Olympiad in mathematics and physics           Medalist (2016-2017)
- MIPT, Lomonosov Olympiad in mathematics           Winner (2017)