

# Danil Kizeev

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## Keywords

python, numpy, pandas, sklearn, scipy, transformers, matplotlib, seaborn, pytorch, C++, optimization, Machine Learning, Data Science, Classification, Regression, Automatic Categorization, NLP.

## Projects

Study projects/pet projects

- Diploma <https://github.com/breadfan/Bachelor-Thesis>  
**Applying BERT for automatic posts categorization in social network.**  
Using BERT, BERTopic and word2vec + TF-IDF for categorization.  
Upgrading quality of models from BERT to word2vec.  
With given categories need to make mapping from amount of posts to that categories for simple recommendations.
- Sarcasm detection <https://www.kaggle.com/taciturno/sarcasm-detection-with-logit>  
**Sarcasm detection via reddit.com dataset of users**  
Using commentaries of users need to classify if comment sarcastic or not. Work mainly produced using **TF-IDF + logistic regression** pipeline. For EDA **plotly** library was used mainly.
- Accelerated MDM-method [https://github.com/breadfan/Accelerated\\_MDM\\_method](https://github.com/breadfan/Accelerated_MDM_method)  
**Researching Acceleration of an MDM-method**  
As a course work for third year two methods were implemented: MDM and accelerated MDM methods with visualization for 2- and 3-dim. cases for running time comparison.
- Polynomial separation [https://github.com/breadfan/polynomial\\_separation](https://github.com/breadfan/polynomial_separation)  
**Project**  
Using linear programming for polynomial separation problem with given two sets of dots.
- Kaggle <https://www.kaggle.com/taciturno/account>  
**Some Kaggle notebooks via mlcourse.ai homework's**

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## Experience

### Technical Skills

Languages C\C++, Python, R, Java, C#

VCS Git

OS Windows, Linux (Debian)

### Education

#### University

Sep 2021 - **Data Analytics, Master**, Saint-Petersburg National Research University of Information Technologies, Mechanics and Optics, Russia.  
Jun 2023

Sep 2018 - **Applied mathematics and computer science, Bachelor**, Saint Petersburg State University, Russia.  
Jun 2021

Sep 2017 - **Cybersecurity department, Bachelor**, Tver State University, Russia.  
Sep 2018

MOOCs ([stepik.org](https://stepik.org), [mlcourse.ai](https://mlcourse.ai), [intuit.ru](https://intuit.ru))

Feb 2021 - **Introduction in geometric programming**,

Feb 2021 Learned basics in optimization problems, which goal functions is posynomial — Geometric Programming (GP) problems.,  
<https://intuit.ru/verifydiplomas/101428913>.

Jun 2020 - **Machine Learning Course**,

Jun 2021 Learning current time machine learning basics,  
<https://mlcourse.ai>.

Sep 2019 - **Elements of financial mathematics**,

Jan 2020 Learned fundamentals of mathematics in finances, calculation methods for making decisions on financial field,  
<https://intuit.ru/verifydiplomas/101301190>.

Sep 2018 - **Basics of programming with R**,

Nov 2018 Learned basics of R and vectorization features through some hard tasks,  
<https://stepik.org/course/497>.

May 2018 - **Programming on Python**,

Jun 2018 Learned basics of Python,  
<https://stepik.org/course/67>.

Apr 2015 - **Algorithms: theory and practice. Methods.**,

Jun 2015 Learned basics of algorithms and practiced it,  
<https://stepik.org/course/217>.

Jun 2017 - **Introducion to Programming**,

Aug 2017 Learned basics of programming and C++ features,  
<https://stepik.org/course/363/>.

#### On the Internet

GitHub <https://github.com/breadfan>

StackOverflow <https://stackoverflow.com/users/9850300/taciturno>

LinkedIn <https://www.linkedin.com/in/danil-kizeev-57a48bba>

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