

## Keywords

python, numpy, pandas, SQL, PostgreSQL, 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 <https://www.kaggle.com/taciturno/sarcasm-detection-with-logit>

detection **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 [https://github.com/breadfan/Accelerated\\_MDM\\_method](https://github.com/breadfan/Accelerated_MDM_method)

MDM- **Researching Acceleration of an MDM-method**

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 [https://github.com/breadfan/polynomial\\_separation](https://github.com/breadfan/polynomial_separation)

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

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## Technical Skills

Languages C\C++, Python, R, Java, C#  
VCS Git  
OS Windows, Linux (Debian)

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## 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 desicions 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>

— Saint Petersburg, Russia

☎ +79040283459 • ✉ [kizeevdanil@yandex.ru](mailto:kizeevdanil@yandex.ru)