

# Vladislav Malkov

03.07.2002

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## Contacts

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- 🌐 <https://github.com/vladislareon>.

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## Education

- 2019 – present **Bachelor degree**, Higher School of Economics, Moscow, Russia.
  - Faculty of Computer Science, Applied Mathematics and Informatics.
- 2008 – 2019 **School**, Educational complex of the author's physics and mathematics school lyceum №61, Bishkek, Kyrgyzstan.

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## Work experience

- Aug 2022 – present **PJSC Sberbank**, intern data engineer programmer.
  - Work with hadoop, pyspark, a large amount of data (analysis, structuring, processing). Participation in the development of analytical products based on the results of analysis of large amounts of information.
- July 2022 – present **Higher School of Economics University**, researcher at the International Bioinformatics Laboratory.
  - Research of the possibility of using and interpreting neural networks in the task of determining secondary DNA structures.
- Apr 2022 – July 2022 **Higher School of Economics University**, teacher assistant in Introduction to Data Science.
  - prepare seminars materials and home works, check students' works, answer both theoretical and practical machine learning, programming questions, which help students more efficiently assimilate information.

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## Skills

- **Machine learning**
  - Numpy, Matplotlib, Sklearn, Xgboost, Catboost, Seaborn
  - Classic methods of Machine Learning
- **Deep learning**
  - Pytorch
  - CNN, RNN
- **Work with databases**
  - Pyspark, SQL, Pandas

- **Recommender system**  
User2User, LFM, ALS
- **NLP**  
Transformers, Gensim Word2Vec
- **Programming**  
Python, C/C++
- **Backend**  
Flask
- **Higher mathematics**  
Calculus, Probability theory, Differential equations, Linear algebra
- **Bioinformatics**
- **Computer Architecture and Operating Systems**  
Linux
- **Latex**
- **Technical English**

## Projects

- Predicting the probability of default of a company competition based on financial statements.
- Predicting Hotel User Evaluation of Recall Text
- ECG-based heart disease detection system
- Exploratory Data Analysis and prediction of Taxi Time in New York
- A neural network for the regression task of predicting the song's release year
- Image classifier with CNN
- Search and study of genome regions where a certain histone tag is present at ZDNA sites with using convolutional neural network

## Additional information

Knowledge and ability to use classical machine learning algorithms and metrics. Data manipulation and analysis in Python

Experience in the preparation of data and using Machine Learning Algorithms in university projects.

Knowledge of deep learning, work with convolutional neural network, transformers.

An advanced level of knowledge of the structure of the Python language, object-oriented programming, and the use of data processing libraries (numpy, pandas and matplotlib) for solving various types of problems. Working with the flask framework.

Also familiar with programming languages such as C (basic) and C ++ (advanced)

## Languages

- **Russian**  
Native speaker
- **English**  
Intermediate

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## Interests

- **Sport**  
Swimming