

Alenicheva Alisa

MACHINE LEARNING ENGINEER/DATA SCIENTIST

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Work Experience

JetBrains Research

Machine Learning Applications and Deep Learning Lab

St. Petersburg, Russia

MACHINE LEARNING ENGINEER

Jul. 2020 - March 2022

- Developing new neural network architectures from scratch (NLP, Graph Neural Networks)
- Implementation state-of-the-art neural network models from articles
- Improving score to predict Lipophilicity of molecules for 10%

Bioinformatics Institute/Computer Science Center/ITMO/Higher School of Economics

St. Petersburg, Russia

TEACHING ASSISTANT, RESEARCH INTERN

Sep. 2020 - Nov. 2022

- Lecturing, preparing seminars and homework materials

Mobile TeleSystems (MTS)

Artificial Intelligence Department

Moscow, Russia

INTERN

Jun. 2019 - Sep. 2019

- NLP Entity Linking for the Russian language
- Collected dataset for Entity Disambiguation in the Russian language

Education

Yandex School of Data Analysis

Moscow, Russia

MACHINE LEARNING ENGINEER

Sep. 2022 - Present

Skoltech (Skolkovo Institute of Science and Technology), GPA 4.5/5.0

Moscow, Russia

M.S. IN INFORMATION SCIENCE AND TECHNOLOGY

Thesis: Predicting the acute toxicity of organic molecules using 3D-convolutional neural networks (3D-CNN)

Sep. 2018 - Exp. Aug. 2020

MIPT (Moscow Institute of Physics and Technologies), GPA 4.9/5.0

Moscow, Russia

B.S. IN APPLIED MATHEMATICS AND PHYSICS

Sep. 2014 - Exp. Aug. 2018

Skills

- | | |
|------------------------------|---|
| Programming languages | <ul style="list-style-type: none">• Python: Scikit-learn, Pandas, Matplotlib, Numpy• Deep Learning: Pytorch, Keras• C++• SQL |
| Languages | <ul style="list-style-type: none">• English, Russian |
| Tools | <ul style="list-style-type: none">• Linux, Git, SSH |

Honors

- | | | |
|------|--|-------------------|
| 2019 | 1st Place, The Arctic Circle Hackathon - Sport Activities Application - Data Analyst | Salekhard, Russia |
| 2020 | 2nd Place, SberCode Hackathon - Clustering applications reviews - Machine Learning Engineer (NLP) | Moscow, Russia |
| 2020 | 1st Place, PandemicDataHack - Analysis of data about unemployment during Covid - Data Analyst | Moscow, Russia |
| 2022 | 3rd Place, Moscow City Hack - Fake News Detection - Machine Learning Engineer (NLP) | Moscow, Russia |
| 2022 | 3rd Place, Cifrovoy Proriv - Children emotion detection - Machine Learning Engineer (Computer Vision) | Moscow, Russia |

Publications

Nina Lukashina, Alisa Alenicheva, Elizaveta Vlasova, Artem Kondiukov, Aigul Khakimova, Emil Magerramov, Nikita Churikov, Aleksei Shpilman. *Lipophilicity Prediction with Multitask Learning and Molecular Substructures Representation*.

Machine Learning for Molecules Workshop at NeurIPS'2020, December 2020

Derek van Tilborg, Alisa Alenicheva, Francesca Grisoni. *Exposing the limitations of molecular machine learning with activity cliffs*.

ChemRxiv, March 2022