KSENIIA IAGAFAROVA

ABOUT

I am a Data Scientist and eager to apply my skills for solving the big data challenges your company is facing and integrating data-based solutions in your operations.

I have a strong technical background (mathematics, data science, programming, physics) and experience in both academia and industry.

EXPERIENCE

Machine Learning Specialist
Jet Infosystems

Machine Learning Center

📅 02/2020 – 06/2020

Work on outsourcing Data Science projects (mostly for the industry).
Responsibilities:
- Research and analysis of the business problem and it's current solutions
- Analysis, preprocessing and visualization of the data
- Development of algorithms and models for the non-trivial DS tasks (CV, time-series, etc.)
- Realization of algorithms as end-2-end pipelines

Stack:
- Python (OpenCV, scikit-image, NumPy, SciPy, pandas, PyTorch)
- Machine learning, computer vision, statistical learning, neural networks
- Git, Cloudera, Jira, Confluence

Data Scientist
Yandex

Advertising Quality Research Group

📅 06/2019 – 08/2019

I completed an internship in Yandex in Machine Learning. I was engaged in the building a real-time neural network model for the task of advertising ranking in RTB auctions with in-depth analysis of user history.
Responsibilities:
- Implementation of the xDeepFM model for production and its unit-testing
- Model training and testing on a dataset of 5 billion objects

Stack:
- Python (PyTorch, NumPy, SciPy), ClickHouse, Nirvana, Subversion, CI / CD
- Machine learning, neural networks, linear algebra

Researcher
MIPT

Computer and Mathematical Modeling of Biological Systems Lab

📅 10/2016 – 12/2018

Research of the process of DNA packaging in a viral capsid and investigation of the mechanical properties of viruses in silico.

Responsibilities:
- Developing the DNA structures
- Modelling the DNA packaging in a spherical shell
- Analysis of the trajectories and structures of the DNA
- Running experiments of nanoindentation of the empty and full virus in silico
- Determination of the stiffness and elasticity of the Hepatitis B virus

CONTACT INFO

📞 +7 (985) 887-54-92

@ xeniayagafarova@gmail.com

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EDUCATION

Skolkovo Institute of Science and Technology

M.Sc. in Information Science and Technology

📅 09/2018 – 08/2020

- Information Technology and Engineering
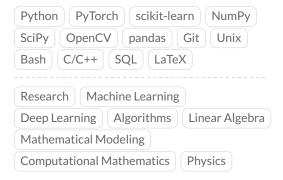- GPA: 4.8 out of 5

Moscow Institute of Physics and Technology

M.Sc. in Applied Mathematics and Physics

📅 09/2017 – 08/2019

- Department of Computer Science and Computational Mathematics
- GPA: 5 out of 5

SKILLS

Python PyTorch scikit-learn NumPy
SciPy OpenCV pandas Git Unix
Bash C/C++ SQL LaTeX

Research Machine Learning
Deep Learning Algorithms Linear Algebra
Mathematical Modeling
Computational Mathematics Physics

CERTIFICATES

- Introduction to Data Science in Python (University of Michigan)
- Maths and Python for Data Analysis (Yandex & MIPT)
- Supervised Learning (Yandex & MIPT)

FOREIGN LANGUAGES

English   **Advanced (C1)**

Stack:

- Python (SciPy, NumPy, MDAnalysis, MDTraj, Matplotlib), C++, CUDA
- Molecular dynamics, statistical physics, linear algebra and statistics

Research won 1st place on XXIV International Conference "Mathematics. Computing. Education. 2017".

Guest Researcher
Forschungszentrum Jülich

IHRS BioSoft Guest Student Program

📅 08/2017 – 09/2017

Modeling the blebbing process, investigating the interactions between the cell membrane and bulk cytoskeleton, and identification of the main features which govern the formation of blebs.

Responsibilities:

- Developing and implementing the model of the cell
- Analysis of the results

Stack:

- Python (NumPy, SciPy, Matplotlib)
- Molecular dynamics, Monte Carlo simulations