Danila Biktimirov

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PERSONAL STATEMENT

As an undergraduate student, I have been studying theoretical computer science and deep neural network applications. Currently, I am conducting research on various methods and algorithms used in bioinformatics and computational biology. Specifically, I am working on a term paper that focuses on the diagnosis of phlebology diseases using deep learning methods.

I plan to focus my postgraduate studies in the field of bioinformatics with a particular focus on the application of artificial intelligence (AI).

EDUCATION

B.Sc. in Applied Computer Science   Oct. 2022 – Current
Neapolis University Pafos, Paphos, Cyprus

- Recipient of the JetBrains Company Sponsor Grant for Free Education
- Relevant courses: Software Project Management, Software Engineering, Principles of Cybersecurity, Introduction to Innovation and Entrepreneurship

B.Sc. in Applied Mathematics and Informatics   Aug. 2020 – Current
HSE University, Moscow, Russia

- Cumulative GPA: 6.8/10
- Minor: Intelligent Medical Information Management and Processing Systems
- Focus areas: theoretical informatics and deep learning application in nature science
- Relevant courses: Intelligent systems in medicine, Deep Learning, Machine Learning, Statistical Learning Theory, Theory of Computation, Computer Architecture and Operating Systems, Algorithms and Data Structures and strong math courses

Bachelor of Mathematics (incomplete)   Aug. 2019 – May 2020
HSE University, Moscow, Russia

- Cumulative GPA: 7.2/10
- Focus areas: theoretical informatics and topology
- Relevant courses: Calculus, Discrete Mathematics, Probability Theory and Mathematical Statistics, Number Theory, Linear Algebra, Algebra

High school   Aug. 2016 – May 2019
Saint Petersburg Lyceum 239, Saint Petersburg, Russia

- The lyceum has been named the best school in Russia in many years
- Specialized in math and physics
- Attendend Extracurricular Biology Classes organized by SPbU
- Biology (A), Mathematics (A), Chemistry (A)

EMPLOYMENT HISTORY

Automatica Service – Intern | *Python*   July 2021 – Aug. 2021

- Optimized ML algorithms through code refactoring using Python
- Applied asynchrony to optimize system performance

PROJECTS	**Prediction of phlebological diseases using PINN and bifurcation analysis**

- Deep Learning Research Coursework at AMI HSE University
- Proposed a solution for the limited and imbalanced datasets commonly encountered in medical deep learning algorithms through data augmentation with GANs
- Confirmed the effectiveness of the proposed paradigm and standard GAN model combination through computational experiments
- Expertise in phlebology, cardiovascular system graphs, MRI-scans, data augmentation, PINN, and GANs

Chaotic Time Series Prediction

- Machine Learning Research Coursework at AMI HSE University
- Chaotic time series; multi-step prediction; predictive clustering; predictable and non-predictable points; a horizon of predictability

Automorphism Groups and Infinite Transitivity on Affine Plane

- Theoretical Math Research Paper at Mathematics Department of HSE University
- Polynomial mapping; Actions of automorphism groups; AMC Theorem

TECHNICAL SKILLS

Strong knowledge of Python and many DL methods (CNNs, RNNs, LSTMs, GANs) - used for courseworks and personal projects
Programming languages: Python, C, C++, bash, SQL, Assembler
OS/Developer Tools: MacOS, Linux, Windows, Git, Docker, Clion, PyCharm, Eclipse, Jupyter Notebook
Frameworks (ML/DS): Scikit Learn, Pandas, Numpy, Seaborn, MatPlotLib, Pytorch, Tensorflow, Theano

ACHIEVEMENTS AND OTHER

- Winner of SPbU Math Competition (2019) in which at least 3,000 students from 20 or more subjects of Russia took part
- Prizewinner of several all-Russian Math Competitions, including MIPT Math Competition (2018, 2019), United Intercollegiate Maths Olympiad (2019) and other
- Currently working as a private Maths tutor and Advanced Calculus teacher assistant in HSE University
- Volunteering experience in organizing various math competitions for schoolchildren
- Numerous programming and bioinformatics online courses