Danila Biktimirov

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Education

Neapolis University Pafos — Paphos, Cyprus
BSc in Applied Computer Science — *Oct. 2022 – Dec. 2024*

Higher School of Economics — Moscow, Russia
BSc in Applied Mathematics and Informatics — *Aug. 2020 – May 2024*

Higher School of Economics — Moscow, Russia
BSc in Mathematics, incomplete — *Aug. 2019 – May 2020*

Experience

Remotely – Teacher assistant — Sept. 2022 – Present

- Working in Neapolis University Pafos and Higher School of Economics
- Assisted in teaching and curriculum development for calculus (first and second years), discrete math, machine learning and deep learning courses
- Provided instructional support to students, conducted review sessions, and offered guidance on assignments and projects. Contributed to grading assignments, exams, and projects.

Automatica Service – Intern | *Python* — July 2021 – Sept. 2021

- Refactoring code of ML algorithms using Python
- Implementation of asynchrony

Projects

Manga colorization with diffusion models and benchmarking methods — Nov. 2023 – Present

- Implementation conditional diffusion model for colorization
- Creation benchmarking methods for colorization task

Q&A Bot — May 2023 – Aug. 2023

- Developed Telegram bot using AIOGram, answering queries from chat history, represented as vector space
- Researched Russian-speaking QA models for enhanced natural language processing
- **Technical Skills:** aiogram, LangChain, HuggingFace, Git, FAISS

Prediction of phlebological diseases using PINN and bifurcation analysis — Sept. 2022 – May 2023

- Deep learning research coursework
- Implementation of neural network based on PINN and BiNN, augmentation of MRI and CT images using GAN
- **Technical Skills:** TensorFlow, HuggingFace, HSE HPC "cHARISMa"

Chaotic Time Series Prediction — Oct. 2021 – June 2022

- Machine learning research coursework
- Chaotic time series; multi-step prediction; predictive clustering; predictable and non-predictable points; a horizon of predictability
- **Technical Skills:** pure Python3, HSE HPC "cHARISMa"

Automorphism Groups and Infinite Transitivity on Affine Plane — Oct. 2019 – June 2020

- Theoretical math research coursework
- Polynomial mapping; Actions of automorphism groups; AMC Theorem

Technical Skills

Programming languages: Python, C, C++, bash, SQL
OS/Developer Tools: MacOS, Linux, Git, Docker
Frameworks (ML/DL): Scikit Learn, Pandas, Numpy, Seaborn, MatPlotLib, Pytorch, Tensorflow, Theano

Languages

Russian: Native
English: Intermediate B2

Achievements

Winner of Math Competition of SPbU (2019), Prizewinner of several all-Russian Math Competitions

Other

Currently working as a private Maths tutor, various volunteering experience. Some online courses certificates