

Mishan Aliev

Moscow

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Education

HSE University <i>Faculty of Computer Science, PhD student in Computer Science</i>	2024 – 2027
HSE University <i>Faculty of Computer Science, Master of Data Science</i> GPA: 9.05/10.	2022 – 2024
MIREA – Russian Technological University <i>Institute of Cybernetics, Bachelor of Applied Mathematics and Computer Science</i> GPA: 4.97/5.	2018 – 2022

Experience

Bayesian Methods Research Group Researcher	November 2022 — Present
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- Exploration of generative models of images and 3D data, texture generation.
- Participation in the industrial project on shadow generation.
- Participation in the industrial project on acceleration of diffusion models.

Projects

Procedural generation of the game map layout <i>C++, OOP</i> Developed a city map model and implemented its procedural generation for each new game session.	GitHub
Detection of chess pieces in images <i>Python, PyTorch, Computer Vision</i> Implementation of a pipeline for object detection of chess pieces in images.	GitHub
Interpretable neural networks <i>Python</i> Developed and tested interpretable neural networks (Neural Formal Concept Analysis).	GitHub
Social network analysis <i>Python, Graphs</i> Analytical exploration of my personal social network derived from the social platform VK.	GitHub

Skills

Languages	English (upper-intermediate), Russian (native).
Programming	Python, C/C++, Julia, MATLAB/Octave, SQL.
Tools	Git, Linux, Visual Studio Code, Docker.

Activities

- Presented research on "Kinetic Study of Spatial Spread of COVID-19 Waves" at the RGD32 International Symposium (July 2022) and ESMED International Conference (August 2022). [Paper](#) accepted for publication.
- Completed Deep Learning School from MIPT ([1st degree diploma](#)) and Deep Learning course from Tinkoff Generations ([certificate](#)).
- Completed the SMILES 2024 Summer School from Skoltech ([certificate](#)) and advanced training on "Generative Models Based on Adversarial Learning"([certificate](#)).
- Taught courses on "Text Analysis. Generative Models"and "Deep Learning 1" at the Faculty of Computer Science, HSE University.