Ivan Lazarevich

✉ *ivan@lazarevi.ch*
vanyalzr

Experience

Jul. 2019–current **Senior Deep Learning R&D Engineer**, *Intel Corporation*, Nizhny Novgorod, Russia.
- Development of state-of-the-art neural net compression algorithms from prototype to productization (with focus on quantization and pruning methods).
- Developer of Neural Network Compression Framework in PyTorch (github link)
- Developer of Intel OpenVINO network optimization tool for efficient low-bitwidth post-training quantization of neural nets.

2017–2019 **Software Engineer**, *Intel Corporation*, Nizhny Novgorod, Russia.
- R&D in optimization/fitting of parametric models for molecular dynamics (MD) simulations
- Usage of machine learning models to drive MD modeling

2016 **Research Intern**, *Laval University*, Quebec City, Canada.
- Analysis of neuronal calcium imaging data, parametric model optimization (signal processing in Python)

2015–2017 **Software Engineering Intern**, *Intel Corporation*, Nizhny Novgorod, Russia.
- Research and development of atomistic simulation tools (molecular dynamics) for industrial process modeling

Education

2017–2020 **Doctorate**, *École normale supérieure*, Paris, France.
Applied machine learning to neural activity decoding

2014–2016 **MSc in Physics**, *Lobachevsky State University of Nizhni Novgorod*.
Advanced School of General and Applied Physics; honors

2010–2014 **BSc in Physics**, *Lobachevsky State University of Nizhni Novgorod*.
Advanced School of General and Applied Physics; honors

Tech stack

Python, C++ (including C++17), PyTorch, Tensorflow, Bash scripting, SQL, git, sklearn, numpy, scipy, pandas.

Publications

[1] Alexander Kozlov, **Ivan Lazarevich**, Vasily Shamporov, Nikolay Lyalyushkin, and Yury Gorbachev. Neural network compression framework for fast model inference, *arXiv preprint arXiv:2002.08679.*, 2020.

[2] J. Lussange, **I. Lazarevich**, S. Bourgeois-Gironde, S. Palminteri, and B. Gutkin. Stock market microstructure inference via multi-agent reinforcement learning, *arXiv preprint arXiv:1909.07748*, 2019.

[3] **Ivan Lazarevich**, Ilya Prokin, and Boris Gutkin. Neural activity classification with machine learning models trained on interspike interval series data, *arXiv preprint arXiv:1810.03855*, 2019.