STANISLAV BELIAEV

Machine Learning Engineer/Researcher

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RELEVANT EXPERIENCE

Software Engineer Intern Google



Mountain View, CA



- Working as part of the Google Accelerated Science (GAS) team in Google Research.
- Exploring new approaches for Semi-Supervised Classification and Representation Learning tasks run on the internal dataset of biological samples of Malaria disease.

Deep Learning Research Intern Nvidia



- Working as part of the Deep Learning Applications team.
- Developed high-level Deep Learning framework, built on top of PyTorch with seamless multi-GPU support, mixed precision mode and whole bunch of other features (see Project 2).
- Developed and implemented a novel model for Speech Recognition, which incorporates the usage of prior knowledge for speeding-up train time and boosting accuracy (see Paper 1).

Machine Learning Engineer



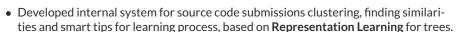


- Contributed major part in developing a framework for **Domain Adaptation** task and proposed new extensions to existing methods, resulting in a published paper (see Paper 2).
- Took part in various research and product-oriented projects, including: Drug Discovery (with Insilico, see Paper 3 and Project 1), Domain Adaptation, Face Recognition and Object Detection of garbage for pollution reducing.

Software Engineer Intern

Jet Brains

🛗 Jun. 2017 – Sep. 2017 👂 Saint-Petersburg, RU



PAPERS

- 1. < Paper on Speech Recognition task as a result of Nvidia internship>. Preprint, 2019
- 2. Beliaev et. al. Unsupervised Domain Adaptation: a Comparative Study and Source Entropy Maximization for Reverse Gradient Models. Pre-print,
- 3. Molecular Sets (MOSES): A benchmarking platform for molecular generation models. Published, 2018

SKILLS

PLs Technologies Interests Papers notes Languages

Python, C/C++, Bash, Java, Kotlin, Scala, R, Scala Git, Linux, SQL, GDB, Docker, PyTorch, Tensorflow, Spark Computer Vision, NLP, Generative Models, RL, Big Data https://github.com/stasbel/papers Russian (Native), English (Advanced)

EDUCATION

Master of Machine Learning and Data **Analysis**

National Research University Higher School of **Economics**

Bachelor of Computer Science

Saint-Petersburg National Research Academic University

m Sep. 2014 - Jun. 2018

Irregular Student

andex

Yandex School of Data Science Sep. 2018 - Present

Attender

p(B|A)yesgroup.ru Summer School on Bayesian Methods in Deep Learning by HSE's Research Group

Aug. 2017, Aug. 2018

NOTABLE PROJECTS

- 1. Molecular Sets (MOSES): A benchmarking platform for molecular generation models
 - https://github.com/molecularsets/moses 200+ stars, 40+ forks
 - Implemented several popular molecular generation models, along with full train/test pipeline and overall project structure.
- 2. Neural Modules (NeMo): A toolkit for conversational AI
 - https://github.com/NVIDIA/NeMo **100**+ stars, **5**+ forks
 - Implemented bunch of features, couple of ASR models and developed overall project structure.
- 3. Gadget
 - https://github.com/stasbel/gadget PyPi-package for Python3.5+
 - Tool for configs parsing with getters on steroids and nice interface for readability

EVENTS

Hackathons won:

EPAM DS Hackaton AlphaBank Hackaton

AiHack Hackaton MunHack Hackaton

TALKS

Presentations given:

Stepik Task Stepik Result **IR Project Bachelor Thesis** Text generation SDVAE for structures **Deep Image Prior DNN with Box Convs**