STANISLAV BELIAEV

Machine Learning Engineer/Researcher

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RELEVANT EXPERIENCE

Deep Learning Research Intern

Nvidia

Dec 2019 – Present Santa Clara, CA

- Working as part of the **Deep Learning Applications** team.

Software Engineer Intern

Google

Aug. 2019 – Dec. 2019 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.

Deep Learning Research Intern

Nvidia

May 2019 – Aug. 2019 Santa Clara, CA

- 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 Paper 2 and 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

Neuromation

Mar. 2018 – Feb. 2019 Saint Petersburg, RU

- 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 3).
- Took part in various research and product-oriented projects, including: **Drug Discovery** (with Insilico, see Paper 4 and Project 1), **Domain Adaptation**, **Face Recognition** and **Object Detection** of garbage for pollution reducing.

PAPERS

1. QuartzNet: Deep Automatic Speech Recognition with 1D Time-Channel Separable Convolutions. Pre-print, 2019
2. NeMo: a toolkit for building AI applications using Neural Modules. Published, 2019
3. Beliaev et. al. Unsupervised Domain Adaptation: a Comparative Study and Source Entropy Maximization for Reverse Gradient Models. Pre-print, 2018
4. Molecular Sets (MOSES): A benchmarking platform for molecular generation models. Published, 2018

SKILLS

PLs	**Python**, C/C++, Bash, Java, Kotlin, Scala, R, Ocaml, Haskell
Technologies	Git, Linux, SQL, GDB, **Docker**, **PyTorch**, **Tensorflow**, Spark
Interests	**Computer Vision**, NLP, **Generative Models**, RL, Big Data
Papers notes	`https://github.com/stasbel/papers`
Languages	Russian (Native), **English (Advanced)**

EDUCATION

Master of Machine Learning and Data Analysis

National Research University Higher School of Economics

Sep. 2018 – Present

Bachelor of Computer Science

Saint Petersburg National Research Academic University

Sep. 2014 – Jun. 2018

Irregular Student

Yandex School of Data Science

Sep. 2018 - Present

Attender

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`
     250+ stars, **65+** 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`
     880+ stars, **90+** forks
   - Implemented bunch of features, couple of **ASR** models and developed overall project structure.
3. **[WIP] 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