Nikita Detkov

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EDUCATION

ITMO University, Saint Petersburg, Russia — Sep 2020 – Jul 2022
M.S. in Big Data and Machine Learning (English-taught program)

Ural Federal University, Yekaterinburg, Russia — Sep 2016 – Jul 2020
B.S. in Applied Informatics, GPA: 4.66 / 5.00
Thesis: *Influence of the label smoothing of pseudo-labeled data on training Convolutional Neural Networks*

PUBLICATIONS

K. Ushenin, <u>N. Detkov</u>, T. Nesterova, D. Smarko, A. Razumov and O. Solovyova, "Unsupervised Learning to Analysis of Population of Models in Computational Electrophysiological Studies", IEEE, SIBIRCON 2019

WORK EXPERIENCE

Malivar, Moscow, Russia (Remote)
Machine Learning Engineer — Mar 2020 – Present

- Conducting research and development related to Person Animation, Neural Rendering and Super-Resolution fields.

Sberbank, Yekaterinburg, Russia
Data Scientist — Sep 2018 – Apr 2020

- Created a model which maximizes profits from the seller's motivation system.
- Extracted a lot of previously unknown knowledge about internal processes using data analysis and visualization;
- Invented and tested hypotheses for variety of pilot projects;

Data Science Intern — Jul 2018 – Sep 2018

- Did data mining, analysis and visualization to answer business questions.

PROJECTS & LEADERSHIP

- Implementation of the generalized 2D convolution with dilation from scratch in Python and NumPy;
- Led Deep Learning workshop as a guest lecturer.
  Topics: Zero-Shot Learning, Super-Resolution, Semantic Segmentation, etc.
  Records can be found on my site;
- Researched the possibility of improving Person Verification problem applying Super-Resolution.
  Successfully confirmed the hypothesis with a team of students as a leader;
- Collected the largest open source music lyrics dataset with wide metadata.
  Trained NN for Multi-Class genre Classification and created singers' embeddings space to visualize their relations.

ACHIEVEMENTS

- Kaggle Competitions Expert:
  - Top 4% in "Severstal: Steel Defect Detection" competition on Multi-Class Semantic Segmentation;
  - Top 9% in "ASHRAE - Great Energy Predictor III" competition on Time-Series Prediction.
- Took 2nd place in the "BEST UrFU" hackathon on Customer Churn Prediction;
- Took 3rd place in the "IT BEST COMPETITIONS" hackathon on Late Payment Prediction.

ADDITIONAL INFORMATION

Skills: Python, SQL, Math, DS/DL Stack (PyTorch, Keras), Git, Bash, AWS
Key Strengths: Persistence, Adequacy, Scrupulousness
Interests: Astronomy, Hiking, Football, Quantum Computing