LEV TELYATNIKOV

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WORK EXPERIENCE

Scientific Research Institute of Russian Academy of Science *Sept. 2018 — Oct. 2019*
Research Fellow

- VAE + GANs for end-to-end audio compression. The approach for raw audio speech compression with possibility of adaptive bitstream has been developed. (Technologies: PyTorch, Wave)
- Lossless audio compression. I've developed the algorithm for lossless audio data compression which is based on Linear Predictive Coding and Fixed-LPC technologies. The problem of optimal audio sampling has been solved with help of analysis of the "saturation" of the errors. My algorithm has achieved on average 5-7 percents better performance of compression against conventional LPC and FLPC approaches.
- Post-training quantization of Deep Neural Networks weights. I've participated in the development of the algorithm. Coding mostly in Python.

PROJECTS

Team project: Optimization of product purchases
Personal, Russia — Backend part, Python *Technologies: Pandas, Sklearn, Numpy*

Demand prediction for Moscow Subway retail stores

Game Data Collection and statistical analysis
Personal, Russia — Backend part, Python, R *Technologies: Request, BeautifulSoup, Seaborn*

Data mining and data engineering with the goal to use frequentist statistics (Parametric Bootstrap) to check the hypothesis about the winner of the game regardless type of game

EDUCATION

Sapienza University of Rome. Rome, Italy *Sept. 2019 — present*
MSc. in Data Science
Department of Statistics

People Friendship University of Russia. Moscow, Russia *Sept. 2015 — June 2019*
BSc. in Applied Math and Computer Science GPA: 4.89/5.0

TECHNICAL STRENGTHS

Modeling and Analysis	Python, R, C++, Matlab, SQL
Frameworks	MapReduce, Hadoop, PyTorch
Software & Tools	Git, Linux

ACTIVITIES AND AWARDS

2017 - 2019

- Winner of the hackathon "Breakpoint: Procter and Gamble 2017";
- Certificate for passing the course of neural networks and computer vision;
- Academic IELTS certificate: 6.5; HSE diploma of bachelor research;