Dmitriy Yaremus

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WORK EXPERIENCE

- **ML Researcher** — **sep 2022 - to date**
  Huawei Russian Research Institute, Computer vision lab
  Development of a new method for quantization neural networks and its comparison with existing ones. Application to Classification, SR and Detection models. Implement my ideas to improve this method and writing scientific article for ICML 2023.

EDUCATION

- **Moscow Institute of Physics and Technology** — **2019 - to date**
  Phystech School of Applied Mathematics and Computer Science
  Department of Image Recognition and Text Processing of ABBYY
  GPA: 8.1/10 (4.7/5)
- **Specialized Educational Scientific Center of Novosibirsk State University** — **2017-2019**
  GPA: 4.9/5

PROJECTS

- **Optimization of algorithmic trading strategy**
  Optimization of the moving average strategy dependent on 4 parameters: Short m.a., Long m.a., Take Profit and StopLoss by various methods (genetic algorithm, random walks, Monte Carlo). Also in this project I use GRU-network for forecasting stock prices.
- **Web-app for captioning images**
  C# Web application with SwaggerUI and RabbitMQ to captioning any images. The model consists of Inception_v3 + Embedding + LSTM + Attention using PyTorch. Experiments you can see on colab, project is on github. I reached 0.17 BLEU-score.
- **App for order coffee by the specified time**
  Javascript application based on VK-mini-apps for ordering food by a certain time. Also I designed and created a database in SQL, wrote the functions of application interaction with the database

SKILLS

- **Languages:** Russian native, English B1 (Intermediate)
- **Programming:** Python | C/C++ | JavaScript | C#
- **Frameworks & Tools:**
  - **Python:** NumPy | Pandas | MatplotLib | PyTorch | TorchVision | Torch-lightning | Scikit-Learn | XGB | CatBoost
  - **Other:** Linux | Git | Docker | CI/CD | Latex | SQL |
- **Math/CS:**
  - Mathematical analysis, Linear algebra, Optimization, Probability theory, Stochastic processes, Functional analysis, Mathematical statistics
  - Algorithms and data structures, Databases, Discrete optimization, Operational Systems, Complexity classes
- **ML/DL:**
  - Classic ML methods
  - Computer Vision: VNG, FHT, experienced in convolutional and generative networks
  - NLP: RNN, Transformers, SOTA models

COURSES

Deep Learning School, 1 semester
Supervised Learning, Coursera
Mathematics and Python for data analysis, Coursera
Finding a structure in the data, Coursera
C++ Development Basics: White Belt, Coursera
JavaScript, Part 1: Basics and features, Coursera