



# 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.

## EDUCATION

### ● AI Masters (ex. OZON Masters)

2022-2024

*Linear Algebra, ML, Algorithms, BigData, GAN, RecSys, RL*

### ● Moscow Institute of Physics and Technology (MIPT)

2019 - 2023

Phystech School of Applied Mathematics and Computer Science  
Department of Image Recognition and Text Processing of ABBYY

GPA: 8.1/10 (4.7/5)

## 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 used 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 | Hadoop

● **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, NN Quantization & Acceleration
- Computer Vision: VNG, FHT, experienced in convolutional and generative networks
- NLP: RNN, Transformers, SOTA models

## COURSES & DIPLOMAS

Deep Learning School, 1 semester

Supervised Learning, Coursera

Mathematics and Python for data analysis, Coursera

McKinsey&MIPT Case Championship, finalist

C++ Development Basics: White Belt, Coursera

JavaScript, Part 1: Basics and features, Coursera