

VADIM TIMAKIN

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SUMMARY

2.5+ years experience in Machine Learning. Kaggle Competitions Expert (Top 0.14% worldwide). I'm looking for a ML-engineer or related job. Having experience in solving problems from different ML fields, most of my projects relate to the computer vision field.

SKILLS

Tools:

Python (advanced), C++ (basic), Algorithms, Data Structures, Full ML-stack (PyTorch, WandB, NumPy, Pandas, matplotlib, cv2, sklearn), Model optimization stack (distillation, quantization, pruning), Linux, SQL.

Experience in:

Classic ML, Classification (multi class/label), Regression, Segmentation, Detection, Optical Character Recognition (OCR), Image Captioning, Transformers, Video Processing, GAN's, Signal Processing, Large-scale tasks.

Languages:

Russian (Native), English (Advanced)

ML COMPETITIONS CAREER

Image Matching Challenge 2022 [\[GitHub\]](#)

May 2022 - June 2022

Result: 28 / 642 (Silver medal).

The stereo matching task. I used a wide range of models (LoFTR, SuperGlue, DKM, ASLFeat, SGMNet), resize calibration and appropriate number of keypoints for each model in my solution.

NTO AI Olympics 2022 [\[Code release soon\]](#)

January 2022 - May 2022

Result: 3 / 50 finalists (\$10000).

The end-to-end OCR task. We trained YOLOV5 model for the words detection. For the OCR part of solution we used two-headed architecture (Transformer + CTC) with Convnext. We trained it with a complex pre-processing, augmentations and external data. On inference we applied batch inference and custom post-processing.

RSNA-MICCAI Brain Tumor Radiogenomic Classification [\[Solution\]](#)

October 2021 - October 2021

Result: 9 / 1555 (Gold medal).

The 3D classification task. My final solution is an ensemble of the 25 Efficientnet-3D models trained on a single MRI type. I blended models trained on different seeds and used a large image size for inference to make my solution as stable as possible.

AI Crowd AI Blitz [\[GitHub\]](#)

March 2021 - March 2021

Result: 1 / 280 (\$100) + Contibution Award Prize (\$100).

The multitask competition, which includes 5 different classification, detection and puzzles tasks. I built validation based on K-fold CV, used classic CNN's and EfficientDet as architectures and augmentations to improve the score. I also managed to win Contibution Award Prize for sharing my pipeline.

AIJJ 2020 Digital Petr Track [\[GitHub\]](#) [\[Article\]](#)

October 2020 - November 2020

Result: 2 / 70 (\$5000).

The OCR task - recognition of Peter the Great's manuscripts. I used Transformer + CNN architecture, tried different augmentations, CNN models, Pre-Processing, Post-Processing and Ensembling to improve score.

EDUCATION / COURSES / CERTIFICATES

Deep Learning School by MIPT (1st part - CV) [\[Certificate\]](#)

January 2020 - June 2020

Deep Learning School by MIPT (2nd part - NLP) [\[Certificate\]](#)

September 2020 - January 2021

C++ White Belt by Yandex and MIPT [\[Certificate\]](#)

July 2020 - September 2021

MAEI Multidisciplinary Gymnasium 13 (GPA: 4.0/4.0)

2011 - Present, Graduation - 2022

SOME PERSONAL PROJECTS

Dataset Fixer [\[GitHub\]](#)

A utility for sorting, filtering, and transformation of datasets.

Style Transfer Telegram Bot [\[GitHub\]](#)

Style Transfer Telegram Bot based on GAN.

Price Evaluator Bot [\[GitHub\]](#)

Telegram bot that predicts the cost of clothing by an image.

ODS Awards 2021 Winner

The best annual progress in competitions.