

Konstantin Privalov

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FREELANCE

- upwork** | *PyTorch, Opencv, ONNX, Docker, streamlit, wandb, BoofCV, supervise.ly ...* 2021-01 - 2021-04
- By photo from the camera, detects QR codes, recognizes(decoder QR coders)them and get a list of QR codes and show on image. Labeled data, fasterrcnn box/mask, image processing(super resolution, perspective transform and other) to improve QR code recognition, presentation for client by dash(plotly), deploy onnx model to Jetson Nano and more...
- | *Spacy, Gensim, telegram-bot, ...* 2022-06 - 2022-08
- Make chat-bot (QST&NER) for Russian clinic, he must unload the information desk (registration), give answers, and take complaints. Collecting data, cleared, topic modeling, labeled. Maked a parser to collect actual information from the site clinic.
- Digital Orthodontics** | *PyTorch, Docker, 3Dslicer, nrrd, mlflow, ...* 2023-08 - ...
- Startup, automatic segmentation of craniomaxillofacial anatomy from CBCT scans. I develop for scratch AI system based on deep learning methods for CBCT scans for creating 3D masks (atomy & teeth)

PROJECTS(KAGGLE)

- UBC Ovarian Cancer Subtype Classification and Outlier Detection(CV, image), 90 place** | *PyTorch, libvips*
* The goal of competition is to classify the type of ovarian cancer from microscopy scans of biopsy samples.
- G2Net Detecting Continuous Gravitational Waves(CV, image), 77 place** | *PyTorch, Optuna, PyFstat, timm*
* The goal of this competition is to find continuous gravitational-wave signals. Develop a model sensitive enough to detect weak yet long-lasting signals emitted by rapidly-spinning neutron stars within noisy data.
- PetFinder.my(CV, image), 76 place** | *PyTorch, Optuna, fastai, SVR, wandb*
* In this competition, your task is to predict engagement with a pet's profile based on the photograph for that profile
- Feedback Prize - English Language Learning(NLP), 11 place public** | *Huggingface, SWA*
* The goal of this competition is to assess the language proficiency of 8th-12th grade English Language Learners.
- BirdCLEF 2023 (CV, sound), Top 10 %** | *Librosa, PyTorch, Polaras, TorchAudio, Audiomentations*
* Identify which birds are calling in long recordings made in Kenya.
- Rainforest Connection Species Audio Detection(CV, sound), 73 place** | *Librosa, PyTorch, Optuna, Pandas..*
* In this competition, you'll automate the detection of bird and frog species in tropical soundscape recordings.
- ASHRAE-Great Energy Predictor III(Classic ML), Top 11 %** | *KMeas, LGBM, Catboost, Ridge, Lasso, Numpy*
* In this competition, develop accurate models of metered building energy usage
* The end result is a mix of lgbm, catboost and knn, find best coef. to mixing model
- Other Competitions >19:** CommonLit Readability(NLP), Coleridge Initiative(NLP), ...

EDUCATION

Murmansk Academy of Economics and Management

Economic, economist

Murmansk

Aug. 2002 – May 2008

Coursera

2018, 2019

Machine Learning and Data Analysis(Search for structure in data, Mathematics and Python for data analysis, Search for structure in data,Applied problems of data analysis), Machine learning by Stanford University - Machine Learning

TECHNICAL SKILLS

Languages:Python,SQL Basic knowledge, Russian-native, English-B1

Libraries:LGBM, Xgboost, Catboost, PyTorch, Sklearn, Scipy, Pandas, NumPy, Matplotlib, Seaborn, Plotly

Other: Colaboratory, VScode, Linux, Probability theory, Mathematical statistics, Git