Konstantin Privalov

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Freelance&Work

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, mlfow, ...* 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)

LLM - Detect AI Generated Text(NLP), Top 5% Efficiency LB | *transformers, sklearn*
∗ The goal of the competition is to determine whether or not text was generated by an LLM.

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.

Education

Murmansk Academy of Economics and Management Murmansk
Economic, economist *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