Konstantin Privalov

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Freelance

upwork | *PyTorch, Opencv, ONNX, Docker,streamlit, wandb, BoofCV, supervise.ly ...* 2021-04 ...2021-08

- 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...

Projects(Kaggle)

Chaii - Hindi and Tamil Question Answering(NLP), 65 place | *huggingface, SWA*

∗ In this competition, you will be predicting the answers to questions in Hindi and Tamil. Same strategy make data&folds, weight initialization, Stochastic Weight Averaging (SWA), one of results

Rainforest Connection Species Audio Detection(CV), 73 place | *Librosa, PyTorch, Optuna, Pandas..*

∗ In this competition, you'll automate the detection of bird and frog species in tropical soundscape recordings.
∗ I transform flac to mel spectrogram(use Fast Fourier Transform, Mel scale)and make image
∗ Make Ensemble (efficientne tb0-b4, mobilenet) with different params by mel spectogram, used meta data from flacs,ban multi accounts

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, my result is top 11 percent.

M5 Forecasting-Accuracy(Walmart)(Classic ML), Top 8 % | *LGBM, Xgboost, ARIMA, Prophet, Sklearn*

∗ Walmart Sales Forecasting
∗ I make more than 90 features (lags, rolling, time features, etc.), rmse metric, i selected best features use single LGBM model trained on 60 features. One of results is top 8 percent.

Prostate cANcer graDe Assessment (PANDA) Challenge(CV) | *PyTorch, OpenCV, sklearn ...*

∗ The grading process consists of finding and classifying cancer tissue into so-called Gleason patterns
∗ The biopsy is a thin strip of the entire image and most of the images are blank. The key idea is to cut images into pieces.I find best params to cut image, after merge all cut image to one).

Other Competitions: CommonLit Readability(NLP), Coleridge Initiative(NLP) , SIIM-ISIC Melanoma Classification(CV), ...

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

Experience

" I have been into machine learning for over two years now. I was so carried away ML that l decide to change my professional field of activity. I'm looking for a role where i can grow and continue to learn from other experienced team members. "

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