

Oleg Ryakhovsky

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PROFILE

Deal with Deep Learning, Computer Vision and Machine learning since 2019. Started carrier as Telecommunications engineer, worked a lot with statistics of cellular networks, then came to data analysis and development area.

Interested in future development as a Data Scientist, preferably in fields of Computer Vision or Big Data Analysis.

Can independently set a task, collect and prepare data, train the model and its hyperparameters, create microservice with simple API and put it into Docker container.

CURRENT AI WORKS

LD Models , production of professional model aircrafts: http://ldmodels.com/ What I do: Developing DL environment for wing airfoil design with Computer Vision methods. Current solution backend runs on Tensorflow/ Keras neural net with Flask API and acts as a microservice towards Excel VBA frontend. Development includes: setting a task, designing the pipeline, preparation and filtering of training dataset, selection and training the model, creating an API for the model. Todo tasks: improve predictions quality and reduce train/val loss. Repository is not available due to NDA signed. Can tell details at interview and provide CEO contacts upon request.	From 12.2019
LACMUS : search of lost people on images taken by drone, ML4SG project: https://lacmus-foundation.github.io/ What I do: <ol style="list-style-type: none">“Sharp-In”: Tensorflow/Keras DL solution for improvement of poor quality drone images. Implemented as Telegram-bot solution in Docker with API on FastApi: https://github.com/lacmus-foundation/sharp-inDataset augmentation utility for Image Inpainting: https://github.com/lacmus-foundation/lacmus/tree/master/data_utils/ImgGeneratorDataset augmentation utility for Bounding Boxes crop and masks preparation: https://github.com/lacmus-foundation/lacmus/tree/master/data_utils/bboxCropper	From 10.2019

RELEVANT INFO

Skills	#Docker #Flask #FastApi #Keras #pandas #sklearn #LGBM #Pytorch #Tensorflow #matplotlib #XGboost #CatBoost #OpenCV #Python #SQL #numpy
Kaggle profile	https://www.kaggle.com/caba7005452/competitions

WORK EXPERIENCE

NOKIA NETWORKS - Automation systems developer Analyzed bottlenecks and time losses in equipment delivery process. Based on analysis: <ul style="list-style-type: none">Created an ML tool for delivery delays prediction.Wrote and implemented numerous handy tools to improve efficiency of logistic staff.Developed a server based application for: a) automated collection, generation and distribution of different progress reports, b) automated sending of action reminders to process stakeholders, c) running minor scheduled processes in company's intranet.Wrote an application for running transactions in SAP to eliminate manual work. As a result I'm saving to company over 5000 man-hours per year.	2018 - now
HUAWEI Tech.Co - Managed Services Procurement department, leader <ul style="list-style-type: none">Wrote applications for tenders results analysis and visualization.Improved contracts preparation process with saving apx 2 man-hours per one contract by mean of simple code.	2014 - 2018
PromKompozit, OOO - Engineer <ul style="list-style-type: none">Developed an application for analysis of possible angular velocity of spinning airplane based on airframe and foil parameters.	2013 - 2014
NOKIA NETWORKS - Radio network expert <ul style="list-style-type: none">Projecting, analysis and optimization of 2G-3G networks.	2004 – 2012

EDUCATION

Moscow Power Engineering Institute - Qualified as Radio Engineer
Machine learning and Deep learning courses at ODS.ai