Grigory Malivenko

Contacts

email: nerox8664@gmail.com
github: https://github.com/nerox8664 website: https://nerox8664.github.io

Work Experience

Current — January 2019
Senior Machine Learning Engineer at Pixelmator Team UAB, Vilnius, Lithuania
research and development image processing algorithms with neural networks
production-ready algorithms for image segmentation / classification / regression.

03.2018 – 01.2019
Senior Machine Learning Engineer at CVisionLab LTD, Taganrog, Russia
leading a small team
new architectures for regression problems on images, including developing models that are superior to SOTA

01.2017 – 03.2018
Machine Learning Engineer at CVisionLab LTD, Taganrog
one of the algorithms for processing raster graphics was accelerated by more than 250%
reimplemented and retrained more than 30 different classification models such as ResNet, Densenet, SqueezeNet, Inception, etc

09.2016 – 01.2017
Junior Developer at CVisionLab LTD, Taganrog
implemented Cocoa demo applications for CV
ported an algorithm of edge detection from OpenCV to pure C++.

09.2014 – 05.2016
Programming teacher at TIT SFedU Center for University Preparatory Instruction, Taganrog
Programming Teacher (C / C++) for high school students

01.2012 – 01.2014
Junior Researcher at Eldic laboratory SFEDU, Taganrog
Natural language processing laboratory
modeling user access to information system resources (balancing algorithm)

Skills

Programming	Python, C, C++, JavaScript, Java, Swift
VCS	Git
DL Frameworks	PyTorch, Keras, CoreML, TensorFlow, Gluon
ML / DS	CV (classification, segmentation, detection), NLP (NMT, Seq2Seq), RL
DevOps	AWS EC2, CI, Docker, K8s
Operating Systems	Linux (Arch, Debian, Ubuntu, CentOS), MacOS, Windows
Databases	SQL (MariaDB, SQLite), NoSQL (MongoDB)
Visualization	Matplotlib, TensorBoard, Visdom

Personal Projects

PyTorch To Keras Converter	[2017] Deep neural network model converter from PyTorch to Keras. [github]
Deep Head Pose Estimation	[2018] A web-demo of the deep head pose estimation. It uses a web-cam and WebDNN for the angles prediction and Three.js for rendering. [demo]
Image Classification Demo	[2019] It's the collection of classification models which are able to make prediction right in your browser. It uses Tensorflow.js as a backend. All the models were successfully converted with Pytorch2Keras neural network model converter. [demo]
ONNX To Keras Converter	[2019] Deep neural network model converter from ONNX to Keras (TF / TFLite). [github]
Awesome Computer Vision	[2019] Systematised and maintained list of CV models related to different problems: classification, segmentation, detection. [github]

Education

July 2016	Master of Science in Software Engineering, **Southern Federal University** Thesis: "R&D of a method of auto-structuring of information sources"
July 2014	Bachelor in Software Engineering, **Southern Federal University** Thesis: "R&D of a method for controlling a computer mouse by EMG. Firmware development."

Languages

English:	Upper Intermediate
Russian:	Native

Interests and Activities

Support open source projects, maintain some usefull utilites for ML / DS. For details, please, check my github: https://github.com/nerox8664/.