
Artem Kutergin

ML Engineer / CV Engineer

Citizenship: Russia

Current residence: Thailand

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SKILLS

Technical:

- Python 3
- Tensorflow 2 + Keras
- Numpy, OpenCV, Pandas
- Scikit-Learn, Imbalanced-Learn, Albumentations, Label-Studio
- Jupyter Notebook, Git, MS SQL
- Apache Beam
- Experience with JetBrains IDEs (PyCharm, DataSpell, DataGrip)
- Experience with model optimization packages and techniques (quantization, pruning)

Personal:

- Russian: Native
- English: C2
- Chinese: HSK 3
- Ability to work in a team, communicate ideas, be flexible
- Responsibility for what I do
- Attention to details

WORK EXPERIENCE

IDScan.net, Chelyabinsk / St. Petersburg, Russia – ML Engineer

OCT 2020 – PRESENT

Responsibilities:

- Data handling (collection, sorting, analysis)
- Assembling of datasets for CNNs, CRNNs
- Writing Python scripts for work process optimization/automatization (including tests of the trained models)
- Testing the machine learning models and analyzing the results
- Prototyping postprocessing algorithms for network output (e.g. handling the binary mask)
- Collaboration with other departments; help with model deployment
- Model development-related research
- Training/re-training models (classification, detection, OCR)

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- Modification of pre-trained models (addition/deletion of layers), and their conversion to the common formats (frozen_graph, tflite, tfjs, onnx), model optimization (quantization, pruning)
 - Construction of inference pipelines based on Apache Beam

Achievements:

- Optimized workflow by refactoring scripts for in-house needs, writing new ones, introducing new tools and libraries, etc.
- Written two Telegram-bots for company needs.
- Improved image capturing module by adding models for quality assessment of the inputs (models for presence of a document in the frame, its type, and angle; models for presence of a face in the frame, and its angle).
- Improved background crop (twice; first time by writing a special algorithm for locating points on a binary mask, second - by using image registration techniques).
- Improved anti-spoofing model by slightly changing the approach + by introducing new spoofing cases
- Improved OCR: now one model is capable of handling multiple types of documents.

Jaskier Studio, remote – *translator*

MAY 2018 – SEPT 2020

- Subtitle translation
- Speaker annotation
- Lip sync

EDUCATION

Chelyabinsk State University, Chelyabinsk, Russia – *specialist's degree (5 years)*

SEPT 2014 – JUNE 2019

Faculty of Linguistics and Translation

Major: Linguistic facilitation of interstate relations

ABOUT ME

Although I'm relatively new to the field of Deep Learning and Machine Learning in general, I'm really passionate about it. Seeing what computers are capable of nowadays is really mind blowing, and I feel proud being a part of it.

I'm looking for a company that could offer me opportunities for further growth in this field. I'd prefer to focus on Computer Vision tasks, as this is the sphere I really like. But I'm also ready to dive into something new if I think that that would be interesting