ALEKSEI SHABANOV

Data Scientist for Computer Vision

♥ Berlin, Germany

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alekseysh

I am a deep learning engineer who strives to find balance between research complexity and code quality.

WORK EXPERIENCE

Senior Data Scientist for Computer Vision NewYorker GmbH, [fashion retailer]

March 2021 - present

Perlin, Germany

I lead a small team that works on the retrieval problem for the fashion items domain. We keep our finger on the pulse of the latest researches and develop our model based on the recent success in the field of Self-supervised Learning. As a team lead I am responsible for both scientific research and delivery solutions to production.

Machine learning engineer

Neuromation Inc.

March 2018 - October 2020

♀ Saint-Petersburg, Russia

Working in a start-up allowed me to broaden my horizons and realize projects in machine learning consulting, for example:

- Built a computer vision system which was able to save doctors' time by checking if a box with surgical tools was correctly completed. This was a challenge because there were a lot of diverse tools and we had to solve the problem without retraining the model for the new ones (in a few-shot way), link.
- Created a text processing tool to extract useful information from emails. It required to fulfill a project from communicating with the client and setting up the data labeling process to containerization and deploying the trained model.

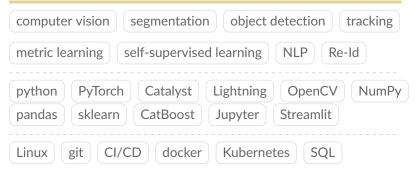
Junior Data Analyst **3Red Trading, LLC**

iii June 2016 − March 2017

♀ Saint-Petersburg, Russia

The company analyzed billions of transactions from the Chicago Mercantile Exchange. Based on statistical anomalies, I recognized traders who used automatic tools, which allowed our team to predict their behavior.

SKILLS AND ABILITIES



LANGUAGES

- English Upper-Intermediate (B2)
- German Elementary, in progress (A2)
- Russian Native speaker

SIDE PROJECTS

Catalyst

In top-10 contributors by code amount

Catalyst is a popular **open-source** analogue of Keras for PyTorch (2.3k stars on GitHub, part of PyTorch ecosystem). Among other things, I have implemented and tested a metric learning module for obtaining the representations of objects.

Medium post [en].

Uber Movement Challenge 2nd place (out of 100+ teams)

11 Oct 2019 - 10 Feb 2020

This was a tabular competition with the following task: "Predict when and where road incidents will occur next in Cape Town". We achieved good results due to non-standard feature engineering for spatial data and a neat validation pipeline.

GitHub.

JetBrains seminars at Computer Science Center

Gave a lecture about Person Re-Id task

Video [ru].

EDUCATION

MSc in Applied Mathematics and Physics

Saint-Petersburg State University

2016 - 2019

Thesis title: "Semi-automatic cataloguing of images in a social network using machine learning methods", <u>link</u>.

BSc in Physics

Saint-Petersburg State University

2012 - 2016

Thesis title "Statistical methods for the separating of interfering seismic waves".

COURSES

- Introduction to databases, <u>certificate</u>.
- Functional programming in Haskell, certificate.
- Graph theory, certificate.