## **ALEKSEI SHABANOV**

### Machine learning engineer

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alekseysh

Moscow, Russia

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

## WORK EXPERIENCE

#### Machine learning engineer

#### **Neuromation Inc.**

March 2018 - October 2020

**♀** Saint-Petersburg, Russia

Working in a start-up allowed me to broaden my horizons and realise 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 (in a few-shot way), link.
- Created a text processing tool to extract useful information from emails. It required to fulfil a project from communicating with the client and setting up the data labelling process to containerization and deploying the trained model.

## Junior data analyst 3Red Trading, LLC

# June 2016 - March 2017

Saint-Petersburg, Russia

The company analysed 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 behaviour. I also learned how to make reports with a large number of graphs as clear as possible.

## 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]. Video from Data Fest [en].

## Uber Movement Challenge

#### 2nd place (out of 100+ teams)

## 11 Oct 2019 - 10 Feb 2020

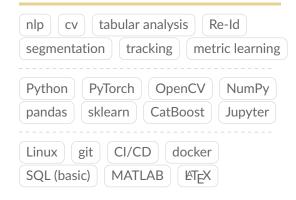
This was a tabular competition with the following task: "Predict when and where road incidents will occur next in Cape Town". We achieved good results due to non-standard feature engineering for spatial data and a neat validation pipeline.

GitHub. Video from Data Fest [ru].

# JetBrains seminars at Computer Science Center Gave a lecture about Person Re-ld task

Video [ru].

## SKILLS AND ABILITIES



## **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".

## BSc in Physics

#### Saint-Petersburg State University

**2012 - 2016** 

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

### COURSES

- Introduction to databases, certificate.
- Functional programming in Haskell, certificate.
- Graph theory, certificate.

## LANGUAGES

- English Upper-Intermediate (B2)
- Russian Native speaker