Alenicheva Alisa

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Summary_

Current Master Student in Skoltech, Moscow, Russia.

Areas of science interests - Machine Learning in Drug Discovery and Natural Language Processing.

Education

MIPT (Moscow Institute of Physics and Technologies)

Moscow, Russia

B.S. IN APPLIED MATHEMATICS AND PHYSICS

Thesis: Mathematical model of light distribution inside layer of microalgae liquid

Sep. 2014 - Exp. Aug. 2018

- · Got an Abramov scholarship which is given for academic achievements
- Was a class leader for 4 years · Graduated with Honors
- Skoltech (Skolkovo Institute of Science and Technology)

Moscow, Russia

M.S. IN INFORMATION TECHNOLOGY AND ENGINEERING

Projects: Sep. 2018 - PRESENT · 3D Segment Mapping using Data-Driven Descriptors

Labelling dataset of 3D pointclouds from KITTI dataset, extraction feature vectors from 3D pointclouds via autoencoder and classification of objects based on these vectors.

· On GANs and GMMs

Comparing the perfomance of SOTA GANs models and Gaussian Mixtures in face generation task.

· Thesis: Predicting the acute toxicity of organic molecules using 3D-convolutional neural networks Transformation of SMILES organic molecules notation into 3D cube; reducing sparsity via convolution with specific kernels; data augmentation with molecule conformers; predict toxicity via 3D-CNN architecture: multi-label classification task (Tox21 dataset), multi-label regression task.

Work Experience _____

National Research Center «Kurchatov Institute»

Biotechnology Department

Moscow, Russia Oct. 2014 - Jun. 2019

RESEARCH ASSISTANT

- · Implemented software for reading and collecting data from sensors system of Bioreactor with LabView development environment
- · Constructed the Arduino-based control unit of Bioreactor lighting
- · Created a mathematical model of light distribution inside the Bioreactors with different geometries

Mobile TeleSystems (MTS)

Artificial Intelligence Department

Moscow, Russia Jun. 2019 - Sep. 2019

TRAINEE

• Entity Linking for Russian language

- Collected dataset for Entity Disambiguation in Russian language based on Wikipedia dump
- · Created prototype of software marking entities in a piece of text

PJSC Sberbank

Basics of Machine learning for top managers course

Moscow, Russia

Oct. 2019

• Teaching basics of regression and cross-validation implemented in Python

• Training classification tasks and specific quality metrics

Honors_

1st Place, Unilever Chain Reaction Hack - Algorithm and UI of application for 3D packing problem of 2019 Unilever's products

Moscow, Russia

2019

1st Place, The Arctic Circle Hakathon - Android application aiming to make inhabitants of cold regions to live a healthy life

Salekhard, Russia

Skills.

• Python (Advanced):

Pytorch, Scikit-learn, Pandas, Matplotlib, Numpy, MPI4py

Programming languages

Relevant Coursework (Skoltech)

• C (Basic)

• LaTeX (Basic)

• PL/SQL (Basic)

• Matlab (Basic)

· Machine Learning

• Natural Language Modelling and Processing

• Deep Learning

• Bayesian Methods of Machine Learning

Languages

Design

• Russian (Native)

• English (Advanced)

• Adobe Photoshop

Adobe Illustrator

InkScape

• Figma

O

Linux

Tools • Git

• ssh

Hobbies and Interests

In my spare time I enjoy participating in hackathons. It gives me an opportunity to meet specialists from different areas of my work interests, and also get experience of team collaboration for creating projects aiming to solve business or social problems with additional motivation given by the spirit of competitiveness. At the same time each project provides various challenges not only for my professional skills of computer scientist, but also for my admiration of painting and design.