VADIM LIVENTSEV

Machine Learning Engineer

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EXPERIENCE

Associate Scientist

Philips Innovation Labs RUS

📅 Feb 2018 – Present   ⚲ Moscow,Russia

Developing named entity recognition with confidence levels in order to interpret medical records.

Chief Technology Officer

BotEngine

📅 Jun 2017 – Dec 2017   ⚲ Moscow, Russia

A platform for development and deployment of chatbots.

Software Development Intern

Institute for System Programming of the Russian Academy of Science

📅 Nov 2014 – Aug 2016   ⚲ Moscow, Russia

Contributing to Modular Avionics System Integrator Workplace and One-Click Eclipse Text Editor.

Software Development Intern

Samsung Research and Development Center

📅 Jul 2016   ⚲ Moscow, Russia

Developing mobile applications for Tizen OS

EDUCATION

MSc in Data Science

Skolkovo Institute of Science and Technology (Skoltech)

📅 Sep 2017 – Jun 2019

Bachelor of Software Engineering

Higher School of Economics (HSE)

📅 Sep 2013 – Aug 2017

Concentration in Programming

Lyceum of Information Technologies (LIT)

📅 Sep 2009 – Jun 2013

As well as
- Foundations of Machine Learning. *Mehryar Mohri*, 2016
- Yandex NLP Week. *Wilker Aziz, Mirella Lapata*, 2019

TEACHING

- Course author and instructor @ *Functional Programming with Clojure*. Skoltech 2018, 2019.
- Course author and instructor @ *Introduction to Artificial Humour*. Skoltech 2019.
- Guest lecturer @ *Natural Language Processing*. HSE 2019. Attention mechanism, language models.
- Speaker @ *MoscowNLP* seminar.
- Mentor @ *Neurohackathon 2018*. Medical image segmentation for Multiple Sklerosis.

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[1]Internal conference at Philips Research

PEER-REVIEWED PAPERS

- Deep Text Prior: Weakly Supervised Learning for Assertion Classification (ICANN 2019)
- Topic evolution modeling using lda2vec (OCUPAI[1])

SKILLS

- Strong mathematical background. Calculus, optimization, numerical linear algebra.
- Deep Learning: ConvNets, RNNs, Attention, GANs. Pytorch and Tensorflow.
- Statistics. Bayesian and Neurobayesian methods
- Natural Language Processing. Language Models, Information Extraction, Image Captioning.
- Efficient algorithms and data structures
- C, C++, C#, Java, Clojure, Python, JavaScript, bash, PHP :(
- x86 architecture: paging, stack, interrupts, assembly language
- Databases: Not-only-SQL.
- Project management methodologies. Scrum.
- Requirements management, e.g. developing user stories. Worked with non-technical clients.
- Russian-English bilingual. Intermediate French.

PROJECTS

Perturbation learning for general-purpose text validation

Developing models that validate how grammatical and natural-sounding a sentence is

Semantic Search for EVA Network

An organisation that supports women with HIV faced a lot of duplicate questions on their site. Used byte-pair embeddings to autosuggest questions that are semantically close to what the user is about to ask

AccorEvents

An event management app for hotels that won AccorHotels Budapest Hackathon

DavaiBot

An app for a group of friends from different cities that suggest the cheapest (airfare-wise) city for them to meet up in

Neuroneca

A bot that promotes Stoicism on Twitter

Program for Determining Tactics in Team Sports based on Video Stream

QCopter

Stabilization and control software for an Arduino-based quadrocopter

Studying the behaviour of a robotic swarm in a virtual environment