# **VADIM LIVENTSEV**

### **Machine Learning Engineer**

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**♀** Eindhoven, the Netherlands

% vadim.me

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# INDUSTRIAL EXPERIENCE

### Visiting researcher

### Philips Research Eindhoven

Ct 2019 - Present

**♀** Eindhoven,Netherlands

Applying my PhD research to Philips use cases

Contractor

#### **Red Kangaroo**

m Oct 2019 - Jan 2020

remote

Developing clinical data exchange for 21st century

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**

m Jun 2017 - Dec 2017

Moscow, Russia

A platform for development and deployment of chatbots.

As well as volunteer software development for EVA Network and internships at Institute for System Programming of the Russian Academy of Science and Samsung Research and Development Center

# **ACADEMIC EXPERIENCE**

PhD in Deep Program Induction for Personal Health Services

#### Eindhoven University of Technology (TU/e)

Oct 2019 - Present

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)

m Sep 2009 - Jun 2013

As well as

- Antivirus School by Kaspersky Lab, 2011
- Developing embedded software for drones @ IT Workshop Summer School, 2013
- Foundations of Machine Learning. Mehryar Mohri, 2016
- Machine Learning Summer School mlss2019.skoltech.ru

 $\label{lem:composition} the -\texttt{promise-and-perils-of-sleeping-at-hackathons-} 25d577697a25 $$^2$ https://github.com/vadim0x60/IDNN-Replication-Study$ 

# **PUBLICATIONS**

- Deep Text Prior: Weakly Supervised Learning for Assertion Classification (ICANN 2019)
- Active Learning with Deep Pre-trained Models for Sequence Tagging of Clinical and Biomedical Texts (BIBM 2019)
- BF++: a language for general-purpose program synthesis
- Neurogenetic Programming Framework for Explainable Reinforcement Learning (GECCO 2021)
- Topic evolution modeling using lda2vec (OCUPAI 2019¹)
- Opening the Black Box of Deep Neural Networks with more information <sup>2</sup>

## **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. Working with non-technical clients.
- Russian-English bilingual. Intermediate French.

# **TEACHING**

- Course author and instructor @ Functional Programming with Clojure. Skoltech 2018, 2019.
- Course author and instructor @ Introduction to Artificial Humour. Skoltech 2019.
- Course instructor, mentor @ Machine Learning, Computer Vision, Project Management. Netology 2019-2021.
- Mentor @ *Neurohackathon* 2018. Medical image segmentation for Multiple Sclerosis.

### **HACKATHONS**

- Junction. Helsinki 2018 & 2019
- HackUPC. Barcelona 2017
- The Room of the Future. Budapest 2018 🛣
- Microsoft ImagineCup Hackathon 2017

<sup>&</sup>lt;sup>0</sup>Internal conference at Philips Research

<sup>1</sup>https://medium.com/@liventsevvadim/