Egor Lakomkin

Stolbergstrase 8, 22085, Hamburg, Germany
Contact: egor.lakomkin@gmail.com, cell: +49 178 111 80 86, www.lakomkin.me

Skills:
Machine learning, neural networks, natural language processing
Programming languages: Python and familiarity with C++, Java

Education:
- University of Hamburg, Knowledge Technology Group, PhD student, expected thesis submission in March/April 2019
- Bauman Moscow State Technical University, Master's degree in Computer Science, class of 2011, GPA 4,4 (of 5)

Experience

2018, **Amazon Alexa**, Cambridge, UK, speech scientist intern
- Developed accent recognition model with deep neural networks.

2016 – present, **University of Hamburg,** research associate
- Developed models for emotion and sentiment recognition using acoustic and linguistic information with deep neural networks.
- Developed low-latency continuous emotion recognition model with deep reinforcement learning (50% latency reduction with the same level of accuracy).
- Achieved state-of-the-art results in sentiment classification combining ASR output and acoustic features.

Used: Python, PyTorch

2014 – 2015, **Nanyang Technological University,** researcher
- Developed gene name entity recognition system based on conditional random fields and bi-directional recurrent neural networks. Comparable to the state-of-the-art results on the BioCreative 2 dataset.

Used: Python, crfsuite

2013, **DomPharm,** founder and developer
- Developed real-time search engine SaaS for e-commerce websites providing domain-specific spell checking and machine learning-based relevance estimation.
- Developed Android app to find available generics for a particular drug, 40k+ installs, reached top10 application in medical category.

Used: Java, Python, ElasticSearch

2011-2012, **InterFinTrade,** developer
- Developed a high-frequency algorithmic trading system operating in less than 10μs latency.

Used: Java, Netty

2011, **Nanyang Technological University,** research intern
- Developed web service for archiving information about natural disaster events mined from news articles in semantic knowledge graph.

Used: Python, OpenCyc, Javascript, SVM

2010, **Indra Software Labs,** research intern
- Developed a gesture recognition model using electronic glove with hidden Markov model.

Used: Java

2009-2010, **Russian Trading System Stock Exchange,** developer
- Developed payment system gate and client registration service.

Used: C++

Selected Publications:
- "KT-Speech-Crawler: Automatic Dataset Construction for Speech Recognition from YouTube Videos", EMNLP-2018
- "EmoRL: Continuous Acoustic Emotion Classification using Deep Reinforcement Learning", ICRA-2018
- "On the Robustness of Speech Emotion Recognition for Human-Robot Interaction with Deep Neural Networks", IROS-2018
- "Reusing neural speech representations for auditory emotion recognition", IJCNLP-2017
- "Automatically augmenting an emotion dataset improves classification using audio", EACL-2017

Awards
- 9th place in Konica Minolta Cancer Segmentation challenge http://bit.ly/2zR6ydi
- 2nd place in Spoken Language Recognition contest at TopCoder http://bit.ly/2PbK24q
- 3rd place in Genpact Email Classification challenge http://bit.ly/2y0uMk1
- 3rd place in Harvard Banner Disease Recognition Competition contest at TopCoder
- Apps4Russia contest winner, nomination "Comfortable city"
- Garage48 hackaton winner http://bit.ly/2P9V1LC
- HackaPhone 2013 Winner @Mobilefest
- Higher School of Economics grant "From idea to project" winner
- "My idea for Russia 2012" contest winner

Languages: English – fluent, German – beginner, Russian – native