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# Mekhti Musaev

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## Education

- Jan 2018 – Dec 2018 **Master's Degree (Exchange Student)**, *Machine Learning*, School of Science, Aalto University.  
Courses: Machine Learning: Basic Principles, Bayesian Data Analysis, Big Data Platforms (Scala), Concurrent Programming (Scala), Algorithmic Methods of Data Mining, Introduction to Analytics and Data Science, Machine Learning: Advanced Probabilistic Methods, Artificial Intelligence, Special Course on Supervised Learning with Large Label Sets, Special Course on Latent Variable Modeling and Bayesian Matrix Factorization, Mathematical Methods for Network Science.
- Sep 2017 – Jun 2019 **Master's Degree**, *Data Science*, The High Performance Computing Department, Information Technologies and Programming Faculty, The National Research University of Information Technologies, Mechanics and Optics (University ITMO), Saint Petersburg, Russia.
- Sep 2009 – Jun 2015 **Bachelor's Degree**, *Department of Computer Science, Mathematics and Mechanics Faculty*, Saint Petersburg State University.  
Scientific supervisor: Dr.sc.tech, Professor Vladimir O. Safonov
- Sep 2008 – Jun 2009 **11-6 Form**, *Saint Petersburg Presidential Physics and Mathematics Lyceum №239*.

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## Academic Experience

- Mar 2018 – Dec 2018 **Research Assistant**, *Probabilistic Machine Learning Group*, Aalto University.  
Working on ELFI (Engine for Likelihood-Free Inference) project - statistical software package written in Python for likelihood-free inference (LFI) such as Approximate Bayesian Computation. Research group home page: <https://research.cs.aalto.fi/pml/>  
Supervisor: Samuel Kaski, Professor, PI
- Sep 2018 – Oct 2018 **Teaching Assistant**, *Machine Learning for Big Data Group*.  
CS-E3210 Machine Learning: Basic Principles course. Course home page: <https://mycourses.aalto.fi/course/view.php?id=20569>  
Teacher in Charge: Alex Jung, Assistant Professor of Computer Science

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## Industrial Experience

Oct 2016 – Sep 2017	<b>Software Engineer</b> , <i>Selectel Ltd.</i> , <a href="http://selectel.com">selectel.com</a> . Implementing new and fixing old backend applications in Go and Python. Participating in implementing architectural solutions in products. Doing code review. Implementing functional and unit-tests. Writing code documentation. Finished projects: Rewriting traffic counter from Python to Go. Implementing Unit Tests. Finding and fixing bugs during going into projects. Implementing Unit Tests using mocks. Creating debian packages from projects. Keywords: Python, OpenStack, pytest, Flask, Ubuntu, Go, Jenkins, Git, bash, MySQL, PostgreSQL, Akamai, Jira, Confluence
Sep 2016 – Sep 2016	<b>Software Developer</b> , <i>Freelancer.com</i> . Doing Python related projects. Profile: <a href="https://www.freelancer.com/u/beym.html">https://www.freelancer.com/u/beym.html</a>
Dec 2015 – Jul 2016	<b>Research Software Engineer</b> , <i>Digital Security, Ltd</i> , <a href="https://dsec.ru">https://dsec.ru</a> . Implementing static code analyzer for obfuscating algorithms (defending intellectual property), stylometry and transpilers. Technologies: Linux (Debian/Ubuntu), Python, MongoDB, Git, Redmine. Python tools: redbaron, pytest (TDD), asteval, click, mongoengine, virtualenv
Mar 2012 – May 2012	<b>C# .NET developer (Internship)</b> , <i>Evrograndsoft LLC</i> , <a href="http://cofite.com/">http://cofite.com/</a> . My responsibility included supporting closed part of website for schedulers of Russian Railways in the Northwestern Federal District.

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## Open Source Projects

Apr 2016 – present	<b>Contribution to open source projects</b> , 1. <b>ELFI</b> : <a href="https://github.com/elfi-dev/elfi">https://github.com/elfi-dev/elfi</a> , Probabilistic Machine Learning Group, Aalto University 2. <b>PyCQA RedBaron</b> : <a href="https://github.com/PyCQA/redbaron">https://github.com/PyCQA/redbaron</a> 3. <b>yapf</b> (owned by Google Inc.) - <b>Yet Another Python Formatter</b> : <a href="https://github.com/google/yapf">https://github.com/google/yapf</a> 4. <b>PyCQA Baron</b> : <a href="https://github.com/PyCQA/baron">https://github.com/PyCQA/baron</a> .
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## International Conferences and Seminars

	IT Global Meetup, Saint Petersburg, Russia
3 Dec 2016	<b>Speaker</b> , <i>RedBaron: The new Era in code manipulation</i> , <a href="https://plus.google.com/+aspectmkn8rd/posts/UvEycobPhhs">https://plus.google.com/+aspectmkn8rd/posts/UvEycobPhhs</a> .
	SPb Python Interest Group, Saint Petersburg, Russia
16 Feb 2017	<b>Speaker</b> , <i>Code metrics: why do we need them?</i> , <a href="https://www.meetup.com/spbpython/events/236816033/">https://www.meetup.com/spbpython/events/236816033/</a> .
	Python Users Berlin (PUB), Berlin, Germany
9 Mar 2017	<b>Speaker</b> , <i>RedBaron: The new Era in code manipulation</i> , <a href="https://www.meetup.com/Python-Users-Berlin-PUB/events/236875904/">https://www.meetup.com/Python-Users-Berlin-PUB/events/236875904/</a> .

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## Languages

Russian	Native/Bilingual	
Azerbaijani	Native/Bilingual	<i>Mothertongue</i>
English	Advanced	
German	Elementary	

Turkish Intermediate

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## Social Networks

LinkedIn <https://www.linkedin.com/in/mehtimusayev>  
GitHub <https://github.com/b5y>  
Kaggle <https://www.kaggle.com/musayev>