Tautvydas Misiunas
Curriculum Vitæ

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Work Experience

Oct 2016 - Oct 2017

Senior data scientist
The Hut Group, Manchester, United Kingdom

Tech lead for data science team of around 10 people. Developed a forecasting solution that accurately predicts global and regional customer demand. Scaled to a high number of product lines (over 250k) by building a distributed application running on Apache Spark and Google Dataproc. Optimised and automated promotion strategy for multiple webshops and locales. Reduced distribution warehouse costs by optimising operations such as walking distance on the warehouse floor. Spearheaded cloud adoption within the company.

Oct 2014 - Sep 2016

Software development engineer
Amazon, United Kingdom and Canada

Designed and developed a payment disbursement platform designed to resiliently handle $100B+ payment throughput. One of my primary focuses is fraud and duplicate detection modules that apply ML and fuzzy matching to achieve high performance. Worked on providing personalized content on Amazon website and services, such as Fire TV, worldwide. Extended a heavily human heuristics based recommendation ranking system with ML models allowing flexible optimization goals as well as better customer experience via accurate personalization. Quickly prototyped new models and performed analysis in Python while productionising best performing ideas in Java. Prototyped a book language inference model that works purely from the title of the book. Prototyped a model to detect adult content used to prevent inappropriate content on main Amazon website. Developed highly parallelisable code base that runs on a fleet of thousands of hosts.

Nov 2012 – Aug 2013

Software developer
Ocado, London, United Kingdom

Java back-end developer on MHE control team, providing a reliable, real-time application responsible for control over sixty interconnected conveyors and cranes. Developed an optimization module which exploits idle machines to improve physical inventory distribution. The module required improved routing routine within a continuously changing warehouse.

Sep 2010 - June 2011

Research assistant
Center for Physical Sciences and Technology, Vilnius, Lithuania

Under the supervision of Prof. E. Tornau, developed computational model to emulate the behavior of triangular-shaped molecules. We have extended existing phase models, including Potts and Blume-Emery-Griffits, to support molecule's ability to settle ontothe lattice. The model successfully explained two structures which were observed in experiments. The model predicted a new structure and defined under what circumstances it forms.

Education

2014	Master of Science Distinction Artificial Intelligence *The University of Edinburgh* Focus on ML and data analysis.
2012	Bachelor degree Overall mark - 84% Physics *Vilnius University* Focus on math and theoretical physics.

Projects

2015	Amazon internal mobile hackathon *Amazon*
2014	Recommendation system for MMO games MSc thesis *The University of Edinburgh & deltaDNA*
2013	Short term movements in stock prices *Kaggle*

Technical Skills

Software development	Java, Python, Scala, Linux, Jenkins, maven, gradle, c++, bash, Ruby, AWS, GCP
Machine learning	Matlab, Octane, Hadoop, Scikit-learn, Theano, Weka, Spark, Amazon EML & EMR

Communication Skills

Conferences	Amazon Machine Learning Conference – 2015, 2016

Publications

2012	Ordered assemblies of triangular-shaped molecules with strongly interacting vertices: phase diagrams for honeycomb and zigzag structures on triangular lattice *The journal of physical chemistry. B*