

Tautvydas Misiunas

Curriculum Vitae

Work Experience

Current, from Oct 2016

Senior data scientist

The Hut Group, Manchester, United Kingdom

Leading data science team of around 10 people. Developed a forecasting solution to accurately predict customer demand for over 250k products. Optimised operation of distribution warehouse via ML methods. Implemented automated promotion strategy.

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 onto the 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.

July 2012

Android games

Co-created two Android free-to-play games. Both applications are very successful with over a million downloads.

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Tautvydas

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