Tautvydas Misiunas

Curriculum Vitæ

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. Among multiple forecasting models developed LSTM predictor utilizing Keras/TensorFlow.

Automated promotion strategy for multiple webshops and locales. Solution reduced manual work required while achieving better conversion. 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

I worked in a team that designed and developed a streaming payment disbursement platform designed to resiliently handle \$100B+ payment throughput. I focused on fraud/duplicate detection prototype module that applies ML and fuzzy matching that outperform rule based approach.

Prior to this I worked in a team that is responsible for majority of personalized content on Amazon website and services, such as Fire TV, worldwide. Extended a human heuristics based recommendation ranking system with machine learned 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.

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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*

Recommendation system for MMO games
MSc thesis
The University of Edinburgh & deltaDNA

2013 Short term movements in stock prices *Kaggle*

Technical Skills

Machine Scikit-learn, TensorFlow, Keras,

learning Matlab, Weka, Hadoop,

Spark

Software Java, Python, Scala, Linux, development Jenkins, maven, gradle, sbt,

c++, bash, Ruby, AWS, GCP

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.

July 2012

Android games *Mobile app*

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

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

Hobbies

- Kaggle ML challenges
- Project Euler Computational math problems
- Halite I & II autonomous agents via ML
- Reinforcement learning
- Sailing, skiing, quadcopters, movies, video games