Michal Malyska

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Education

University of Toronto **2015–2020**
BSc. Statistics, MSc. Statistics

- Teaching Assistant - Statistical Methods for Machine Learning (STA314) - Fall 2018, Data Analysis II (STA303)- Spring 2019, Statistical Methods for Machine Learning (STA314) - Fall 2019, Winter 2020
- Research Assistant - RiskLab - Spring 2019, Fall 2019, Research Assistant - Vector Institute - Fall 2019

Work Experience

University of Toronto **Toronto, Canada**
Course Instructor *April 2019 - Current*

- Prepared course materials for the STA220 - Practice of Statistics course

Startup **Toronto, Canada**
Machine Learning Engineer *June 2019 - Current*

- Implemented state of the art NLP algorithms from publications
- Improved the data pipeline and model evaluation procedures for complicated NLP datasets in a highly multi-label setting.

Deloitte - Actuarial, Rewards & Analytics **Toronto, Canada**
Analyst *January 2018-August 2018*

- Worked client-site on business analytics, loss forecasting, and predictive modelling for a large insurance client
- Co-authored a publication for the Canadian Institute of Actuaries on the state of predictive analytics in the insurance industry
- Worked for a large public sector client developing an overview of internal and external data, and analytical tools

Intact Financial - Belairdirect **Toronto, Canada**
Actuarial Analyst *Summer 2017*

- Authored an efficient algorithm enabling the company to analyze the inforce business at different points in time
- Took part in preparation and submission of regulatory rate filings
- Worked on developing and validating benchmark pricing models

Extracurricular Experience

ASA Datafest **University of Toronto**
1st. Place, Mentor *May 2017, 2018*

- Created a business case from click data for Expedia, aimed at improving the suggestion engine and customer retention
- Served as a mentor during the 2018 competition

McKinsey Open Data Challenge **McKinsey & Company**
1st. Place *October 2017*

- Created a business case and an MVP aimed at re-routing low urgency patients to hospitals with lowest estimated wait time

Statistical Sciences Union **University of Toronto**
President *October 2016–April 2017*

- Handled administrative and operational aspects of running a course union with 3000+ members
- Established and maintained relations with research institutes, industry, and the department

Professional Skills

Programming: Python, R, VBA, SQL, SAS

Languages: Polish (Native), English (Native), German (A2)

ML/Statistical Packages: **R:** tidyverse, forcats, tidymodels, shiny, STAN, INLA, **Python:** Pytorch, xgboost, LGBM, scikit-learn, SpaCy, torchtext, fastai, Tensorflow, keras, numpy, pandas, git