

Christine Yuen

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OBJECTIVE

Gain experience solving problems and building tools with machine learning, with particular interest in natural language processing and real-world applications in the financial sector

EDUCATION

Master of Science in Applied Computing, Specializing in Data Science, University of Toronto, St. George, Ontario, December 2018

- Introduction to Machine Learning and Data Mining
- Computational Techniques in Statistics
- Topics in Computational Social Science
- Information Visualization

Bachelor of Science, Honours Specialization in Computer Science, University of Western Ontario, London, Ontario, June 2017

- Major in Biology
- Graduated with a Gold Medal for highest standing in Honours Specialization in Computer Science

TECHNICAL SKILLS

- Proficient with Python, Pytorch, Unix, SQL, Spark, elasticsearch, Docker, AWS Services
- Experience with R, Java, VBA, HTML, CSS, JavaScript

EXPERIENCE

AI Research Developer June 2019 - Present
BMO Financial Group, Toronto, Ontario

- Develop and implement machine learning algorithms to classify and extract information from financial documents, including training a finance-domain language model.

Applied Research Scientist, Deloitte Omnia AI January 2019 - June 2019
Deloitte, Toronto, Ontario

- Experimented with state-of-the-art NLP model architectures for information retrieval and extraction.
- Integrated deep learning methods into production pipeline, enhancing the web application's text extraction capabilities.

Data Science Intern, Deloitte Omnia AI April 2018 - Present
Deloitte, Toronto, Ontario

- Experimented with supervised methods (XGBoost, Random forest, SVM, regression), unsupervised methods (LDA, LSA, clustering, hierarchical LSTM), and semi-supervised PU-learning, creating models for an automatic contract analysis and intelligent reviewer system
- Built training and text extraction pipelines around statistical models, using Django REST framework to create a web application for legal text extraction
- Scraped websites and clean data to build corpora and training data sets, enabling the data science team to perform modelling and experimentation

Finance and Software Intern April 2017 - January 2018
Corus Entertainment, Toronto, Ontario

- Created and maintained a database for Corus's television networks and programs to analyze asset data and produce a monthly forecast, greatly increasing efficiency at month and quarter ends
- Developed an application to generate amortization reports and automatically update calculations monthly. Used by the corporate finance team to gauge whether programs were budgeted appropriately

- Led two workshops on automation, introductory programming concepts, and coding in VBA, teaching employees how to create macros and small programs for monthly analysis and reports
- Created Microsoft Office macros for the Finance team to automate monthly processing

Teaching Assistant for Introduction to Databases

September - December 2017

University of Toronto, St. George Campus, Toronto, Ontario

- Marked assignments and exams, monitored online forums, and responded to student inquiries regarding course material, providing students with a stronger understanding of course material

Private Piano Tutor

April 2014 - Aug 2017

- Gave lessons in English and Cantonese to teens and adults, introducing creative practicing techniques to prepare students for RCM examinations, music festivals, and competitions.

Finance Intern

April 2016 - August 2016

Corus Entertainment, Toronto, Ontario

- Ran two workshops to teach automation, basic programming concepts, and coding in VBA to Finance employees, enabling them to increase efficiency at quarter and month ends
- Created standardized reports for month and quarter end analyses
- Regularly developed macros for Microsoft Word and Excel to speed up the Finance department's processing times

PROJECTS

- Information-gain based subspace selection and bagging for k-nearest neighbours
- Reddit information and structure: a visual study
- Improving the online social media experience by censoring negative content

EXTRA-CURRICULAR ACTIVITIES

Varsity Athlete, University of Western Ontario Varsity Badminton, 2015-2017

- Scholar Athlete, OUA Bronze, OUA Silver medalist

President/Vice President, University of Western Ontario Badminton Club, 2013-2016

- Acted as the primary contact between the Western Student Recreation Centre and over 200 registered club members
- Negotiated sponsors, managed over \$10,000 in club funds and assets, increased club enrollment by 20% (of 180)
- Managed a team of executives to develop marketing strategies, host tournaments and social events, and regulate club practices to enhance members' experiences in the club