Tom LaMantia

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Profile

I'm a motivated data scientist with experience applying machine learning techniques to real-world problems. I augment my analytic background with the ability to communicate technical ideas with diverse audiences.

Skills & Knowledge

- I have extensive experience applying natural language processing (NLP) techniques to notes in financial statements and within XBRL documents.
- My Python proficiency is razor sharp. I'm comfortable analyzing data with Scikit-Learn, Spacy, Pandas, NumPy.
- I thrive at opportunities for public speaking and communicating about data. To that end, I'm always editing my writing for correctness, clarity, and brevity.

Academic Background

Master of Science, Applied Computing (Sept 2015 – Jan 2017)
University of Toronto, Toronto, Ontario

- Courses: Computability and Logic, Theory of Algorithm Design and Analysis, Systems Thinking for Global Problems, Topics in Storage Systems, Communication for Computer Scientists, Technical Entrepreneurship.

Honours Bachelor of Arts (with high distinction), Computer Science (Sept 2011 – April 2015)
Wilfrid Laurier University, Waterloo, Ontario

- Selected Courses: Data Structures, Object-Oriented Programming, Software Engineering, Discrete Mathematics, Database I, Algorithm Design and Analysis, Quantum Computing, Philosophy of Science.

Employment History

Server Developer – Machine Learning, CaseWare International Inc. (May 2016 – Present)

- Independently retrieved, cleaned, and structured a large dataset of XBRL financial statements submitted to the U.S. Securities and Exchange Commission.
- Constructed models, baseline metrics, and evaluation metrics for predicting future amendments and ratios.
- Reduced model error and training time by implementing multiple feature selection algorithms in Python.
- Integrated techniques to address class imbalance in an existing Scikit-Learn pipeline.
- Project featured in the *Applied Research in Action Showcase* at the University of Toronto.

Natural Sciences and Engineering Research Council of Canada (NSERC) (April 2015 – Aug 2015)

- Secured funding through an undergraduate student research award (USRA) to work as part of a team conducting novel graph coloring research.
- Co-authored an original result published in *Discrete Applied Mathematics* (2016).

Computer Science Instructional Assistant, Wilfrid Laurier University (Jan 2015 – April 2015)

- Independently graded weekly programming assignments for an intermediate level computer science course (Microprocessor I).

Honours and Awards

MITACS Accelerate Fellowship (May 2016 – Dec 2016)

- Secured $15,000 of applied research grant funding in collaboration with MITACS Canada, CaseWare International, and the University of Toronto.

Addictive Mobility Scholarship in Applied Computing (Dec 2015)

- This scholarship is awarded on the basis of academic merit and the ability to express an opinion regarding data-driven computation on society.