

DARRELL AUCOIN

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Objective

To further develop my machine learning knowledge, devise new machine learning models and implement them.

Executive Summary

- Prospective Data Scientist with Masters Degree in Applied Computing and Bachelor degree in Statistics and Computational Math with experience in R, Python, SQL, Apache Spark, and C++
- Knowledge of a wide variety of machine learning and statistical models learned through Masters Degree in Applied Computing and B. Math in Statistics and Computational Math
- Demonstrated leadership and management skills as President of Statistics Club for 2 years
- Passion for communicating ideas and concepts via presentations/tutorials for the UW Statistics Club as well as national conferences

Data Science Skills

Modelling: Studied various machine learning and statistical models through Masters in Applied Computing and Bachelor of Math in Statistics. I also created various models for Datalogue.

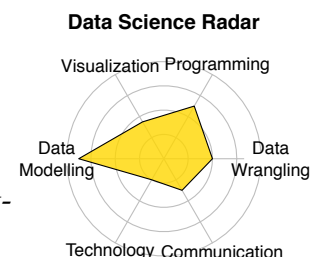
Data Wrangling: Cleaned data related to projects using SQL, Spark, R and Python.

Communication: Made various presentations to classes, clubs, and conferences.

Visualization: Taken a statistics course on Data Visualization.

Programming: Experienced in various data analytics programming languages: R, Python, Matlab, and Apache Spark.

Technology: Built a small Hadoop cluster using single board computers.



Relevant Work Experience

Machine Learning Researcher, Interdata Laboratories (Datalogue), Montreal, QC. May 2017-Aug 2018

- Research, train, deploy Machine Learning models to help automatically prepare data
- Designed and Implemented a segmentation machine learning model that breaks a string into its components
- Created models on anomaly detection for text columnar data, working with noisy data, and classifying whole columns of data

Software Adviser, Statistical Consulting Centre, University of Waterloo, Waterloo, ON. 2015

- Provided software advice on R, SQL, and SPSS for graduate students

Education

Master of Science in Applied Computing, Data Science Concentration 2018

- *University of Toronto, Toronto, Ontario.*

Relevant Courses: Topics in ML: Interference & Generative Models, Algorithms for Genome Sequence Analysis, Probabilistic Learning and Reasoning, Fundamentals of Statistical Genetics

Bachelor of Mathematics with Major in Statistics and Computational Math with CS Minor 2015

- *University of Waterloo, Waterloo, Ontario.*

Relevant Courses: Inference for Big Data, Classification (Machine Learning), Data Visualisation, Function Estimation, Data Types (Python), Object-Oriented Programming (C++), Databases (SQL), Spatial Data Analysis, Longitudinal Data Analysis, Computational Linear Algebra

Research Experience

Undergraduate Research Assistant, Shoja'eddin Chenouri: University of Waterloo. May-Aug 2015

- Worked with Apache Spark on various data projects

Undergraduate Research Assistant, Shoja'eddin Chenouri: University of Waterloo. May-Aug 2014

- Investigated and wrote supplementary material on various Big Data Tools

Projects and Extracurricular Activities

- Missing Data Imputation Using Gaussian Mixtures:** Investigated MCMC gaussian mixture models for data imputation. 2016
- CSC 2541: Differentiable Inference and Generative Models Project
- Review of Genotype Imputation Algorithms:** Compared various genotype imputation algorithms. 2016
- CSC 2417H: Algorithms for Genome Sequence Analysis Project
- Statistics Club President,** University of Waterloo 2014-15
- Lead a team in providing various statistics related educational and social activities for fellow students.
- Executive Evaluation Committee Member,** MathSoc, University of Waterloo Fall 2015
- Evaluated MathSoc executives and provided constructive criticisms and recommendations
- Small Hadoop Cluster:** Created a small Hadoop cluster using single board computers. May 2015
Funded by the Math Endowment Fund (MEF).
- Determine Influence in Social Media:** Ranked Twitter users using machine learning algorithms 2014
- Stat 441: Classification Project

Honours and Awards

- NSERC Undergraduate Student Research Award:** Natural Sciences and Engineering Research Council of Canada. 2015
- Received 2 awards for work underneath a supervisor at University of Waterloo 2014
(see Research Experience)
- Winston and Diana Cherry Award in Statistics:** University of Waterloo. 2013
- For highest mark of 98 in a statistics course (Computational Inference)
- Jason Lang Scholarship:** Student Aid Alberta. 2012
- For outstanding academic achievements in undergraduate studies
- Dean's List:** University of Alberta. 2012
- Honourable Mention:** MCM: The Mathematical Contest in Modelling. 2012

Academic Conferences

- PyCon Canada:** Toronto, Canada 2016
- Python conference on various topics: new features for python, neural networks, etc
- Big Data Phenotyping: Opportunities, Analytic Challenges, and Solutions:** Toronto, Canada 2016
- Conference on various issues related to big data and health research
- SORA/TABA Annual Workshop 2016 and DLSPH Biostatistics Research Day:** University of Toronto. 2016
- Workshop on causal inference in observational studies
- Undergraduate Research Opportunities Conference (UROC 2015):** University of Waterloo. 2015
- Performed analytics on protein data as part of a 3-person team
- Canadian Undergraduate Mathematics Conference (CUMC 2015):** University of Alberta. 2015
- Presented a talk on MapReduce and the basics of distributed computing
- Canadian Undergraduate Mathematics Conference (CUMC 2014):** University of Carlton. 2014

Presentations

- Intro to SQL:** 5-hour presentation on basic concepts and commands for querying in SQL. 2014-15
Statistics Club, University of Waterloo.
- CUMC 2015:** MapReduce and the basics of distributed computing. 2015
Canadian Undergraduate Mathematics Conference, University of Alberta.
- Big Data Concepts & Tools:** MapReduce, the basics of distributed computing and some big data tools. 2015
Statistics Club, University of Waterloo.
- Intro to Hadoop:** MapReduce and basic overview of commands for Hadoop. 2015
Statistics Club, University of Waterloo.