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 degree in Statistics and Computational Math with experience in R, Python, SQL, Apache Spark, and C++
- Knowledge of a wide variety of statistical models learned though 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 statistical models through Bachelor of Math in Statistics.

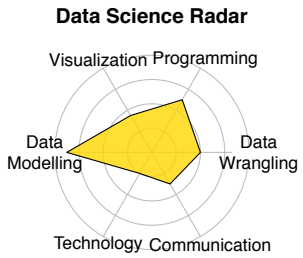
Data Wrangling: Cleaned data related to projects using SQL, Spark, R and Python.

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

Visualization: Taken a statistics course on Data Visualization.

Programming: Experience 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, Montreal, QC. May 2017-Aug 2018
- Research, train, deploy Machine Learning models to help automatically prepare data
- Designed and Implimented a segmentation machine learning model that breaks a string into it's 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 Fall 2016-Present
- *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-Orientated 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.