DARRELL AUCOIN

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GitHub: DarrellAucoin, Kaggle: DarrellAucoin, Website: https://daucoin.getforge.io

Relevant Work Experience

Machine Learning Researcher, Datalogue, Montreal, QC.

May 2017-Aug 2018

- Researched, trained, and deployed Machine Learning models to help automatically prepare data
- Designed machine learning models that will become a product/service:
 - Segmentation machine learning model that breaks a string into it's components
 - Anomaly detection for text columnar data using word and character embeddings
- Improved existing machine learning models:
 - Carried out experiments on using different character mappings for character-wise Convolutional Neural Network helping to increase classification accuracy of models
 - Cleaned data using SQL, and Apache Spark
- Experimented with various machine learning models:
 - Created models designed to help training classifiers when working with noisy data (internship project)
 - Created a model for classifying whole columns of text data
- Investigated layer activation of Neural Networks, helping Datalogue understand its models better

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

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.

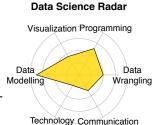
Data Wrangling: Cleaned data related to projects using SQL, Spark, R and Python.

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.



Darrell Aucoin **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-Orientated Programming (C++), Databases (SQL), Spatial Data Analysis, Longitudinal Data Analysis, Computational Linear Algebra **Projects and Extracurricular Activities** Automatic Data Cleaning: Investigated a model to correct noisy labels in training data. 2016 Probabilistic Learning and Reasoning Course Project Imputation of Missing Data using Gaussian Mixtures: Investigated MCMC gaussian mixture models for data imputation. 2016 Differentiable Inference and Generative Models course Project Review of Genotype Imputation Algorithms: Compared various genotype imputation algorithms. 2016 Algorithms for Genome Sequence Analysis course Project Statistics Club President, University of Waterloo 2014-15 Lead a team in providing various statistics related educational and social activities for fellow students. Presented tutorials on SQL, Hadoop, and Big Data (videos up on YouTube Channel "UW Stats Club"). **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 • Classification Course Project Honours and Awards

NSERC Undergraduate Student Research Award: Natural Sciences and Engineering Research Council of Canada. 2015

2014

2013

2012

2012

2012

Received 2 awards for work underneath a supervisor at University of Waterloo

Winston and Diana Cherry Award in Statistics: University of Waterloo.

• For outstanding academic achievements in undergraduate studies

Honourable Mention: MCM: The Mathematical Contest in Modelling.

• For highest mark of 98 in a statistics course (Computational Inference)

(see Research Experience)

Dean's List: University of Alberta.

Jason Lang Scholarship: Student Aid Alberta.