Christopher Luciuk

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EXPERIENCE

Fellow, Insight Data Science, New York, NY, January 2018 - present

- Built JobFit (see christopherluciuk.ca) - a web application that helps users identify skill deficits when making a career transition
- Performed logistic regression using data extracted from resumes to predict job transition outcomes based off of skill profiles in the O*NET database (the nation's primary source of occupational data)
- Deployed a web application interfacing flask with a postgreSQL database delivering job skill recommendations

Graduate Research Assistant, University of Toronto, Toronto, ON, 2012 - 2017

- Explored novel regimes of quantum transport using a complex experimental apparatus
- Deployed various regression techniques to experimental data for validation of theoretical models providing new benchmarks for calculations of transport parameters
- Trained a neural network to aid in the classification of noisy images using Python and Theano
- Served as project leader for a team of 4 research assistants (2014-2017)

Teacher, Abelard High School, Toronto, ON, 2014-2017

- Taught complicated concepts using a variety of personally developed resources engaging students with various learning styles and backgrounds
- Facilitated peer-to-peer learning through classroom discussion

INDEPENDENT PROJECTS

Modelling Stock Prices

- Developed a time series forecasting tool using Python to predict stock prices and recommend low-risk investments based on the volatility of the market

Exploring TED Talks

- Performed exploratory data analysis and feature engineering to train a binary random forest classifier that predicts if a talk will receive a greater than average number of views with an accuracy of 80%
- Used NLP to identify semantic patterns in highly viewed talks providing guidelines to presenters to help effectively structure their talks

SKILLS

Languages Python, SQL, MATLAB, Mathematica, HTML, C++*, Java*

Tools pandas, numpy, scikit-learn, theano, nltk, beautifulsoup, flask, AWS

Machine Learning regression, random forests, neural networks, NLP, dimensionality reduction

**indicates basic working knowledge*

EDUCATION

PhD, Physics, University of Toronto, Toronto, ON 2017

MSc, Physics, University of Toronto, Toronto, ON, 2013

BSc (hons), Physics, University of British Columbia, Vancouver, BC, 2012