Dylan Labatt Randle

dylanrandle.github.io

EDUCATION

• Harvard University, School of Engineering & Applied Sciences

Master of Science in Data Science; GPA: 4.0

Cambridge, MA Sep 2018 - Present

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o Awards: IACS Scholarship

• University of California at Berkeley, College of Engineering

Berkeley, CA

Bachelor of Science in Industrial Engineering & Operations Research; GPA: 3.9

Sep 2012 - May 2016

o Awards: High Honors at Graduation, Frank Kraft Award for Freshmen, Dean's List (2012-2016), Phi Beta Kappa

Relevant Experience

Graduate Research Assistant

Institute of Applied Computational Science, Harvard University

Cambridge, MA

Nov 2018 - Present

o Deep Learning in Physics: Researching unsupervised Generative Adversarial Networks for solving ordinary and partial differential equations. Researched and developed neural network methods for unsupervised learning of solutions to Reynolds-Averaged Navier Stokes equations

• Hubdoc, Inc. (acquired by Xero Ltd.)

Toronto, Canada

Lead Data Scientist

Jan 2017 - Jul 2018

- Deep Learning: Developed and deployed production deep learning system using LSTMs & CNNs for information extraction (i.e. entity recognition and classification) from financial documents. Extraction time reduced from 24 hours to 5 seconds; cost savings estimated at \$2MM/year. Tech stack: Python, Keras, Postgres, Ansible, AWS
- o Data Science: Conducted business and engineering analyses: e.g. capacity planning of labor and anomaly detection for web scrapers. Wrote reports and built data visualizations (with D3.js) for company intranet
- Management: Regularly presented results and recommendations to C-suite. Integral in crafting team strategy and roadmap. Coordinated with product and marketing teams. Involved in fundraising and presentations to investors. Delivered machine learning lecture to 60+ people

• Bank of Montreal, Capital Markets

Toronto, Canada

Financial Products Analyst

Summer 2014

- Fixed Income: Conducted analyses of various debt products (swaps, swaptions, ABS, MBS). Wrote custom C# algorithm to analyze relationship between delta-hedging frequency and returns for Canadian swaptions; found possible trading opportunities
- Sales & Trading: Compiled daily summaries of trading activity. Reviewed and analyzed sales product pitches. Supported both sales and trading with various data analyses

Relevant Projects

- Twitter Troll Classification: Project achieving 96% accuracy classifying Twitter trolls using tweets scraped from accounts indicted for meddling in the 2016 U.S. elections
- Automatic Differentiation: Python package implementing automatic differentiation, supporting both forward and reverse modes
- Spark Tensorflow: Training neural networks with Tensorflow on a Spark/Hadoop-YARN cluster with AWS Elastic Map Reduce
- Bayesian Generative Adversarial Networks: Paper review, implementation, and demo of Bayesian GANs

Programming Skills

Languages: Python (numpy, pandas, scikit-learn, pytorch, keras, pymc3), SQL, C/C++

Technologies: AWS (EC2, EMR, S3), Spark, Git