DYLAN LABATT RANDLE

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EDUCATION

Harvard University Cambridge, MA
M.S. in Data Science *Expected May 2020*

· Relevant coursework: Advanced Methods in Data Science, Stochastic Methods & Bayesian Inference, Parallel Computing

University of California, Berkeley Berkeley, CA
B.S. in Industrial Engineering & Operations Research, GPA: 3.9/4.0 *May 2016*

· Honors: High Honors, Dean's Honors, Tau Beta Pi, Phi Beta Kappa, Alpha Pi Mu

· Relevant coursework: Statistics & Machine Learning, Optimization, Simulation, Decision Theory

RELEVANT EXPERIENCE

Harvard University Cambridge, MA
Research Assistant *Nov 2018 - Present*

· Researching deep learning methods for solving differential equations

Hubdoc Toronto, Canada
Data Scientist *Feb 2017 - July 2018*

· Developed and deployed deep learning system using LSTMs & CNNs for information extraction and text classification from financial documents. Greatly reduced cost ($1-3MM/year) and increased speed (14,000x faster for 80% of documents) of results. Used Python, Keras, Postgres, Ansible, AWS

· Conducted analyses (capacity planning, anomaly detection, work prioritization) as needed. Built data visualizations for company intranet

· Regularly presented results and recommendations to management team. Delivered introductory machine learning lecture to 60+ people

BMO Capital Markets Toronto, Canada
Financial Products Analyst *May 2014 - Aug 2014*

· 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

RELEVANT PROJECTS

Automatic Differentiation: `https://github.com/dylanrandle/autograd`

· Built a Python package implementing automatic differentiation (forward and reverse mode). Used to implement gradient descent and Adam optimizers, with extensive documentation

Troll Classification of Tweets: `https://dylanrandle.github.io/troll_classification`

· Achieved 96% accuracy in classifying tweets as trolls, using a dataset of Twitter handles indicted for meddling in the 2016 U.S. presidential election

TECHNICAL SKILLS

Expert	Python (numpy, pandas, scikit-learn, pytorch, keras, pymc3), SQL
Proficient	Git, C/C++, Javascript, Latex