DYLAN LABATT RANDLE

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EDUCATION

Harvard University, School of Engineering & Applied Sciences — Cambridge, MA
M.S. in Data Science — *May 2020 (Expected)*
Scholarship in Applied Computation

University of California at Berkeley, College of Engineering — Berkeley, CA
B.S. in Industrial Engineering & Operations Research — *May 2016*
High Honors, Phi Beta Kappa, Tau Beta Pi

TECHNICAL SKILLS

Expert	Python (Numpy, Pandas, Scikit-Learn, Pytorch, Tensorflow)
Proficient	AWS, Apache Spark, SQL, Git, Jupyter, Latex
Familiar	Javascript, Matlab, C

WORK EXPERIENCE

Amazon Robotics — North Reading, MA
Data Science Intern — *Jun 2019 - Aug 2019*

· Developed machine learning package for proprietary internal use cases. Built automated and scalable data pipeline for big data querying, cleaning, and loading ($\sim 1 \times 10^{12}$ rows). Implemented API for feature selection, model training, hyperparameter tuning, and testing. Included interpretable visualizations (PDP, SHAP) for model explanations.

· Greatly increased speed and reduced complexity of model development. Wrote documentation and published code to internal repositories.

Harvard University — Cambridge, MA
Graduate Researcher & Teaching Fellow — *Jan 2019 – Present*

· Developed method for training unsupervised generative adversarial networks to solve differential equations. Invented grid sampling procedure leading to improved convergence. Paper in progress.

· Applied decision sets and explainable boosting machines to reinforcement learning to learn interpretable policies targeted at healthcare applications. Paper in progress.

· Prepared lecture materials on boosting, neural networks, gradient descent, backpropagation, and regularization. Explanations and visualizations praised by students for their clarity and simplicity.

Hubdoc (acquired by Xero) — Toronto, Canada
Data Scientist — *Jan 2017 - Jul 2018*

· First data scientist hired. Grew team threefold while creating highly valuable "text extraction" product, a crucial piece driving the Xero acquisition.

· Developed production deep learning system (LSTMs & CNNs) for entity extraction and text classification of financial documents. Built scalable, asynchronous pipeline for serving predictions. Deployed fault-tolerant system to main web application, with live monitoring and alerting.

· Regularly presented results and recommendations to C-suite. Pitched machine learning strategy to investors. Delivered lectures to audiences of 40-60 people. Built data visualizations for company intranet.

RELEVANT PROJECTS

Please see my website for all of my available work: dylanrandle.github.io