DYLAN LABATT RANDLE

Website: dylanrandle.github.io ◇ LinkedIn: dylanrandle ◇ GitHub: dylanrandle

EDUCATION

Harvard University — Cambridge, MA
M.S. Data Science — *2018 - 2020*

- Thesis: "Unsupervised Neural Network Methods for Solving Differential Equations"
- Awards: Scholarship in Applied Computation, Special Distinction in Teaching

University of California, Berkeley — Berkeley, CA
B.S. Industrial Engineering & Operations Research — *2012 - 2016*

- Courses: Statistics, Optimization, Machine Learning, Stochastic Processes, Simulation
- Awards: High Honors at Graduation, Dean's Honors, Frank Kraft Award

WORK EXPERIENCE

Amazon Robotics — North Reading, MA
Data Scientist II — *2020 - Present*

- Led development of optimization algorithms for robot path planning
- Demonstrated +10% performance improvement and potential cost savings of $150M/year
- Paper accepted for presentation (4% acceptance rate) at internal conference

Harvard University, School of Engineering & Applied Sciences — Cambridge, MA
Teaching Fellow — *2019 - 2020*

- Prepared lecture materials on neural networks and tree-based ensemble models
- Led hands-on lab sessions covering AWS, Hadoop, Spark, OpenMP, MPI
- Awarded "Special Distinction in Teaching"

Amazon Robotics — North Reading, MA
Data Science Intern — *Summer 2019*

- Designed and developed automated machine learning (AutoML) library for trillion-row datasets
- Reduced time and complexity of data preparation, model training, and result interpretation

Hubdoc — Toronto, Canada
Data Scientist — *2017 - 2018*

- Designed, developed, and deployed natural language processing (NLP) system for extracting key information from invoices, bills, and receipts
- Served tens of thousands of customer inference requests per day with $\leq 2s$ latency

SELECTED PROJECTS

Unsupervised Learning of Solutions to Differential Equations with GANs
https://dylanrandle.github.io/denn/deqgan.html

Generating Faces with a ResNet VAE
https://github.com/dylanrandle/deepgen

Learning Interpretable Decision Sets for Healthcare with RL
https://dylanrandle.github.io/irl/irl.html

TECHNICAL SKILLS

Languages: Python (numpy, pandas, pytorch, keras), SQL

Tools: Git, Docker

Platforms: AWS