Dylan Labatt Randle

dylanrandle.github.io | LinkedIn | GitHub

Summary

I am a highly skilled data scientist with over **4 years of experience** building **machine learning systems** for applications in **robotics**, **computer vision**, and **natural language processing**. My work has been **published** and **patented**, and I was invited to present it at both **MIT** and **Harvard**.

Experience

Senior Data Scientist — North Reading, MA, USA
Amazon Robotics — *Jul 2020 – Present*

- Developed ML systems for **robotic item manipulation** (e.g. grasp learning, damage prediction, damage detection)
- Developed optimization algorithms for mobile robot **path planning**
- Responsible for performance improvements worth **+$100MM/year**
- Recipient of **Inventor Award**
- Paper **published** at internal conference ($\leq 5\%$ accepted)

Data Scientist — Toronto, ON, Canada
Hubdoc Inc — *Feb 2017 – Jul 2018*

- Developed **LSTM-based NLP system** for extracting accounting information from financial documents
- Deployed to production with **99% precision** at **95% recall** while reducing extraction time by **99.99%**

Education

Harvard University — Cambridge, MA, USA
Master of Science in Data Science (GPA: 4.0) — *Aug 2018 – May 2020*

- Scholarship in Applied Computation, Distinction in Teaching

University of California, Berkeley — Berkeley, CA, USA
Bachelor of Science in Industrial Engineering & Operations Research (GPA: 3.9) — *Aug 2012 – May 2016*

- High Honors (*magna cum laude*), Frank Kraft Award, Phi Beta Kappa, Tau Beta Pi, Alpha Pi Mu

Projects

Physics-Informed Neural Networks — GitHub

- Developed **GAN** framework for unsupervised learning of solutions to differential equations
- Workshop paper published at **ICML 2022**

ML Trading System — Proprietary

- Developed **LDA-based NLP system** for trading US equities
- Deployed to production for **real-time trading**

Generative AI for Human Faces — GitHub

- Developed **ResNet VAE** to generate human faces
- Code published to GitHub

Technical Skills

Languages : Python, Javascript/Typescript
Frameworks : PyTorch, React Native
Libraries : Numpy, Pandas, Scipy
Dev Tools : AWS, Git, Firebase, Docker