ADAM LIEBERMAN

Machine Learning | Data Science

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EXPERIENCE

Head of Data Science & Innovation
Finastra

- Lead Machine Learning efforts for Finastra's Artificial Intelligence and Innovation Laboratories in the United States, Budapest, London, Paris, and Israel focusing on Machine Learning and Deep Learning research and development pertaining to financial markets
- Work with our C level executives and product directors to develop strategy around the use of data science and artificial intelligence, build and maintain AI infrastructure, and develop partnerships with leading fintech companies
- Actively research, develop, and debug code with the data science and software development teams

Data Science Lead
NCR

- Lead data science for NCR's Innovation Lab focusing on deep learning, machine learning, data science, and computer vision research and development
- Develop innovation strategy in the payments industry with our leadership teams while performing active development with data science tams to bring R&D products to life
- Accumulated 20 patents on NCR's behalf pertaining to research projects in computer vision and deep learning

Co-Founder
Cappio

- Developed a financial web application that helps the average investor make smart investments in equities.
- Acquired by Simply Wall St.

Quantitative Developer
Lucena Research

- Developed Lucena's premier blackdog algorithmic trading strategy (+51.86% as of August. 6, 2018)
- Researched various statistical machine learning models, optimization of various objective functions, and varying re-balancing periods for construction of an optimal portfolio with constrained ETFs

Quantitative Developer
Janus Capital Group

- Worked with Nobel Prize Winner Myron Scholes and his asset allocation team
- Focused on machine learning and natural language processing for trade signal generation
- Researched gaussian copulas for portfolio tail loss

EDUCATION

M.S. in Computer Science
Georgia Institute of Technology

GPA: 4.00

B.S. in Applied Mathematics
Georgia Institute of Technology

GPA: 3.70

STRENGTHS

Skills

Deep Learning | Machine Learning | Data Science | Strategy | Public Speaking

Programming

Python | R | Matlab | Javascript | C# | Java | HTML | CSS | JQuery

Libraries

Keras | Sklearn | TensorFlow | PyTorch | OpenCV | NLTK | Numpy | Pandas | Flask | Matplotlib

WRITTEN WORKS

- Deep Learning on Clinical Notes
- Theory and Application of Generative Adversarial Networks
- Activation Functions in Deep Learning
- Regularization in Deep Learning Models
- Bias-Variance Trade-off
- Introduction to Machine Learning
- Clustering short-text documents
- Dynamic Time Warping
- Building a quantitative trading strategy

PROJECTS

- Deep Convolutional Generative Adversarial Networks for Synthetic Facial Generation
- Crafte: A Craft Beer Recommendation Web Application
- Quantum Finance: Machine learning and interactive visualization for portfolios
- PyQuant: A class for quantitative portfolio metrics