ADAM LIEBERMAN

Machine Learning | Data Science

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EXPERIENCE

Head of Machine Learning
Finastra

📅 September 2018 – Current   📍 Atlanta, GA

- Lead Machine Learning efforts for Finastra's Artificial Intelligence 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 to strategize the use of artificial intelligence, build and maintain AI infrastructure, and develop partnerships with leading companies in the space

Head of Innovation
NCR

📅 August 2017 – September 2018   📍 Atlanta, GA

- Head of Machine Learning at NCR's Innovation Lab focusing on deep learning, machine learning, data science, and computer vision research and development
- Projects: Amazon Go style store, Wells Fargo AI Branch Manager, Rivermark Augmented Reality Branch support, Real-time mood recognition, Joint Density Estimation, synthetic transaction generation for database population, self check out theft prevention
- Talks: Introduction to Machine Learning, Introduction to Deep Learning, Mathematics of Neural Style Transfer, Generative Adversarial Networks, Autoencoders, Variational Autoencoders

Co-Founder
Cappio

📅 August 2014 – May 2016   📍 Atlanta, GA

- A financial web application that helps average investors make smart investments in equities.
- Acquired by Simply Wall St.

Quantitative Developer
Lucena Research

📅 January 2016 – June 2016   📍 Atlanta, GA

- 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 & Equity Research Developer
Janus Capital Group

📅 May 2015 – August 2015   📍 Denver, CO

- Worked with Nobel Prize winner Myron Scholes and the asset allocation team
- Developed preprocessing techniques for various derivatives data
- Created a historical weather simulation for quarterly report sales explanation
- Developed a glassdoor scraper and sentiment analyzer for fundamental insight into companies
- Designed and built the user interface for the ResearchLive twitter scraper
- Held meetings with the CEO and CFO from Sealed Air Corp (SEE) and DXPE Enterprises (DXPE)

EDUCATION

M.S. in Computer Science
Georgia Institute of Technology

📅 August 2016 – June 2017

Specialization: Machine Learning
GPA: 4.00

B.S. in Applied Mathematics
Georgia Institute of Technology

📅 August 2012 – May 2016

GPA: 3.68

STRENGTHS

Skills

Deep Learning   Machine Learning   Data Science   Equities   Public Speaking

Programming

Python   Matlab   Javascript   C#   Java   HTML   CSS   JQuery

Libraries

Keras   Sklearn   OpenCV   NLTK   Numpy   Pandas   Flask   pymongo   Matplotlib   BeautifulSoup   Requests

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