

MAVERICK LIN

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SKILLS & CERTIFICATIONS

Languages and Frameworks: Python (scikit-learn, NumPy, Pandas, Jupyter, Tensorflow, Keras), R, Java; Familiar with Git, SQL, Hadoop, Amazon Web Services (Machine Learning, Sagemaker), Google Cloud Platform, LaTeX

Machine Learning: Classification, Regression, Ensemble methods, Deep learning, Feature engineering, Data scraping, manipulation, and visualization, natural language processing (NLP)

Certifications: AWS Certified Developer- familiar with core AWS services, uses, and basic architectural solutions

EDUCATION

Cornell University, College of Engineering

Ithaca, NY

B.S. Operations Research and Information Engineering; Minor in Computer Science

May 2019 (*expected*)

Relevant Coursework: Machine Learning, Artificial Intelligence, Data Mining, Stochastic Processes, Simulation

Modeling, Probability & Statistics, Algorithms, Natural Language Processing, Linear Algebra & Differential Equations

GPA: 3.3/4.0

PROFESSIONAL EXPERIENCE

Chardan Capital Markets

New York, NY

Summer Analyst

Jun 2017-Aug 2017

- Worked with head of research to build linear regression models to predict biotech and pharmaceutical companies' market capitalization given the type and number of Food and Drug Administration (FDA) and European Medicines Agency (EMA) designations received
- RegenexBio's Potential Acquisition of Biotech Companies
 - Analyzed hundreds of equity reports, SEC filings, and press releases to identify underlying drivers of stock price movements for over 20+ biotech companies; research results were used in client presentations
- Worked with senior management to prepare valuation of Amazon using public company comparable and sum-of-parts valuation; analysis showed company was under-valued by 70% (massive upside from AWS segment)

Blogger/Writer (www.quora.com/profile/Maverick-Lin)

Ithaca, NY

Quora Blogger/Writer

Sep 2016-Present

- Blogged and answered questions about philosophy, data science, machine learning, and operations research
- Answers generated over 2 million views and gained over 2000+ followers; Awarded 2018 Quora Top Writer

SELECTED INDEPENDENT PROJECTS (more projects at <http://mavericklin.com/#portfolio>)

Options Trading/Special Situations Investing

Sep 2018-Present

- Built web scraper to collect options data to identify volatility distortions and mispricings (caused by litigations, regulatory actions, earnings cycles) that might lead to favorable trades

Data Science Cheatsheet (<https://github.com/ml874/Data-Science-Cheatsheet>)

Jun 2018-Present

- Author of the cheat sheet based on *The Data Science Design Manual* and *ISLR*; over 450+ stars on Github
- Covers probability, statistics, machine learning, deep learning, data wrangling, modeling philosophies, SQL

Tennis Betting System (Python, Tor, BeautifulSoup, Selenium, scikit-learn, DynamoDB)

Jul 2018-Present

- Created web scraper to gather and store data for thousands of players, match odds, and outcomes
- Built prediction model with logistic regression/Monte Carlo simulation, wagering model based on Kelly criterion

Tennis Prediction Competition (Kaggle-style data science competition; Python, scikit-learn)

Jan 2018-Feb 2018

- Finished top 12% (83th/750); model predicted how points would end with 87% accuracy

Reinforcement Learning and Blackjack (Python, keras, tensorflow, OpenAI API)

Jan 2018-Feb 2018

- Implemented Q-Learning blackjack agent to Hit/Stand; achieved results equal to Ed Thorpe's basic strategy

LEADERSHIP & EXTRACURRICULAR EXPERIENCE

Cornell Men's Varsity Tennis: Division I Men's Tennis varsity player; 2017 Ivy League champions (2015-2017)

Cornell Go Club: Third place finish in the 2016 Collegiate Go League Championship (2015-2016)

AWARDS & INTERESTS

Awards: Quora Top Writer (2018), Dean's List (Spring 2016)

Interests: Poker, Go (5 Dan), Blackjack, Spartan Races, Quora