Samuel Sharpe

223 West 115th Sreet, New York, NY 10026

☑ sbs2193@columbia.edu

ssharpe42.github.io

Ssharpe42

□ (301) 412-1930

Education

Columbia University

New York, NY

M.S. in Computer Science, GPA: 3.97

Expected May 2020

Machine learning specialization

Columbia University

New York, NY

B.S. in Operations Research, GPA: 3.98, Magna Cum Laude

Sep. 2013 - May 2015

o Stephen D. Guarino Memorial Award in Industrial Engineering - Awarded to a senior with outstanding academic achievement and potential.

Oberlin College

Oberlin, OH

B.S. in Mathematics, Economics Minor, GPA: 3.63

Sep. 2010 - May 2013

Skills

Programming/Technology

Python, R/RShiny, MATLAB, SQL, Airflow; Exposure to Java, C, MongoDB, AMPL

Ouantitative

Machine Learning, Optimization, NLP, Deep Learning, Simulation, Stochastic Modeling

Research & Publications

Publications

Visual natural language query auto-completion for estimating instance probabilities.
Samuel Sharpe, Jin Yan, Fan Wu, Iddo Drori; CVPR Language and Vision Workshop, 2019.

Course Research

o Stylometry in the Modern Era: Coreference and Voice for Authorship Attribution. Spring 2019.

SiteRx

Jan. 2019 – May. 2019

- o Business to business start-up that connects patients with clinical trial sites through their physician.
- o Research focuses on natural language processing of medical record text for deidentification.

Experience

Major League Baseball Advanced Media (MLBAM)

New York, NY

Data Scientist

June 2018 - Present

- Deployed pitch classification neural network in Tensorflow and custom enpoints for live pitch classification locally at ballparks.
- o Created player matchup prop bet lines that outperform predictions from industry leaders in sports betting.
- Designed pitch arsenal identification system using clustering and classification to detect when pitchers add new pitches to their arsenal.

Booz Allen Hamilton

Washington, DC

Lead Data Scientist

Jul. 2018 - Sep. 2018

- o Oversaw development of a resource reallocation MIP model to optimize Immigration Judge (IJ) caseloads and shorten case times.
- o Implemented a PoC IJ scheduling optimization (IP) designed to reduce rescheduled hearings for the Department of Justice (DOJ).

Staff Data Scientist / Modeling & Analysis Team Lead

Jan. 2017 - *Jun.* 2018

- o Formulated and implemented a multi-objective optimization model in MATLAB that presents Immigration and Customs Enforcement (ICE) leadership with tradeoffs between operational and budgetary objectives through sets of pareto-optimal resource allocations.
- Model endorsed by Department of Homeland Security (DHS) and awarded a DHS funded Winter Study.

Data Scientist

Sep. 2015 - Dec. 2016

- Led implementation of probabilistic forecasts to inform risk-oriented budgeting that prevented over-appropriation.
- o Utilized NLP, clustering, queuing simulation, and other techniques in R and Python on ad-hoc projects influencing client strategy.

Mindshare

Data Analytics Intern

New York, NY

Jun. 2014 - May 2015

o Developed attribution models to influence media spend and visualized twitter word-brand associations with NLP techniques.