ELIJAH SANDLER
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Available July 2024 - December 2024

EDUCATION and ACADEMIC HONORS

Northeastern University, Boston, MA | Khoury College of Computer Sciences — Sept 2022 - Present
Candidate for B.S. in Data Science, B.A. in Philosophy — Expected 2026
Honors: GPA: 3.95/4.0 | Dean's List
Relevant Coursework: Algorithms & Data Structures, Database Design, Linear Algebra, Probability and Statistics, AI Ethics, Technology and Human Values

TECHNICAL SKILLS

Languages: *Proficiency in* Python | *Familiarity with* C++, SQL
Libraries and Tools: Git, NumPy, Pandas, Plotly, scikit-learn, TensorFlow

WORK EXPERIENCE

Machine Learning Methods Research | Northeastern University, *Boston, MA* — Aug. 2023 - Present
- Won PEAK award research grant from Northeastern University's Office of the Provost.
- Researched and applied novel machine learning methods for cases with high variance in Python.

Ultimate Frisbee Coach | Brookline High School, *Brookline, MA* — Mar. 2023 - Present
- Coached Brookline High School Boys JV Ultimate Frisbee team.
- Ran JV program, including scheduling, communication, and logistics.

Research Assistant | Northeastern University, *Boston, MA* — Sept. 2023 - Dec. 2023
- Conducted literature review for a project on the simulation hypothesis.
- Updated project authors on extent of existing literature.
- Advised authors on feasibility and direction of project.

Soccer Referee | United States Soccer Federation / Boston Area Youth Soccer. — Aug. 2015 - May 2021
- Served as licensed United States Soccer Federation and Boston Area Youth Soccer referee.
- Liaised for officials, players, coaches, and spectators.

PROJECTS

Fantasy Premier League (FPL) Predictive Model | Python — Mar. 2022 - Present
- Built a series of scripts to collect data from various sources and perform a series of machine learning tasks including regression and linear programming with the goal of identifying good FPL assets.
- Created a new metric for FPL asset strength.
- In progress. Future features include autonomous play.

NBA Elo Ratings | Python — Dec. 2023 - Present
- Implemented an Elo algorithm to calculate NBA team strengths and produce dynamic visualizations.
- Explored discrepancies with other popular metrics of NBA team strength.
- In progress. Future features include a player rating system.

Evolutionary Ethics Simulation | Python — Oct. 2023 - Dec. 2023
- Used TensorFlow to build a neural network to explore the Lewis signalling game as a model of the minimal conditions for the evolution of meaning.
- Successfully validated hypothesis; wrote a paper based on findings.

Predator-Prey Simulation | C++, Python — Nov. 2023 - Dec. 2023
- Used object oriented programming to illustrate dynamics between predator and prey populations
- Stored simulation data, which was displayed via static and animated graphs.

Interests: Camping, Chess, Soccer, Basketball, Frisbee, Hiking, Motorsports, Reading