Levi Kaplan

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Sept. 2022 - Present

Education

Bachelors, Northeastern University, Boston, MA Sept. 2018 - May 2022 Bachelors of Science in Computer Science GPA: 3.69/4.00 Honors Distinction

PhD, Northeastern University, Boston, MA

Candidate for PhD in Computer Science Advised By Alan Mislove

GPA: 3.83/4.00

Research

* Indicates First Authorship

*Measurement and Analysis of Implied Identity in Ad Delivery Optimization: [4] Oct 2022 Presented IMC 2022, won Distinguished Paper Award

- Used StyleGAN 2 to generate synthetic faces, discovering novel methodology to change only the demographics of the faces
- Ran Facebook ads containing stock people and synthetic faces
- Discovered that ads get delivered more to people with same demographics, except images of children delivered more to older women and images of young women more to older men
- Images of white people delivered less to Black usevrs supports need for diversity in advertisements - less diverse ads may not be shown to POC

Algorithms That "Don't See Color": [2]

Jul 2022

Published in AIES 2022

- Investigated characteristics of Facebook's ad delivery for housing, credit, and employment ads
- Discovered that removal of demographic features from algorithm may not prevent biased outputs
- Findings used in 2022 HUD Settlement against Facebook

Data Deserts and Black Boxes: 🖸

2021-22

Published in Management Science

- Investigated equity of Data Broker coverage along demographic lines
- Performed large-scale data analysis and ML techniques to analyze coverage
- Discovered lower coverage/accuracy for historically marginalized groups

Work

Software Engineer, Veracode:

2020

- Six month Co-op as Back End Engineer for the Static Platform Team
- Contributed to large-scale microservice architecture development
- Developed a REST API using AWS to relay internal system health status

Research Assistant, Northeastern University:

2021

- Six month Co-op performing research on Algorithm Auditing and Fairness
- Worked under supervision of Dr. Alan Mislove and Dr. Piotr Sapiezynski
- Performed research used in Data Deserts and Black Boxes and Measurement and Analysis of Implied Identity in Ad Delivery Optimization

Technical Skills

Languages and Frameworks: Python (Pandas, NumPy, PyTorch), Scala, Java