

## EDUCATION

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**Yale University**, New Haven, CT

December 2022

*Sociology and Statistics and Data Science*, GPA: 3.82

**Thesis:** Natural Language Processing of breast cancer patient forums used to provide experience-oriented approaches to care\*

**Relevant Coursework:** Machine Learning, Probability Theory, Data Engineering, Information Systems

**Awards:** Mildred Priest Frank Memorial Prize for Thesis work\*

Cohen Summer Fellowship awarded to fund data science research and data system development at nonprofit

## EXPERIENCE

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**Up & Up**, *Data Science Intern*, New York, NY

Summer 2022

- Designed full data pipeline, ML model, and framework optimized to find best neighborhoods for investment using similarity scores—automatically tuned per market (currently 3), will be used to launch future markets all around the US (*presentation available at mehika.upandup.co*)
- Facilitated transition to standard data engineering practices using DBT
- Built construction team's portion of company global dashboard with identified key performance metrics
- Supported property management team with helpful tools to facilitate their work (*route optimizer, dashboard filters*)

**Detect**, *Computer Science Intern*, Guilford, CT

Spring 2022

- Created data visualization tool for R&D team to facilitate efforts to develop PCR-quality at home COVID-19 tests
- Developed tool saves researchers ~20 minutes per test, with additional time costs for team saved by removing technical hurdles of manual coding analysis, visualization, and technical malfunctions

**Freelance Technical Instructor**

Spring 2022-Current

- Provide technical training (*coding, data science, ML*) to professionals at Fortune 500 companies such as Microsoft
- Instruct & tutor 15+ students of all ages (9-52) in math, statistics, coding, and data science

**Yale Physics Department**, *Machine Learning Fellow*, New Haven, CT

Spring 2022

- Testing & tweaking of Baryon Pasting (BP) model aimed to probe nature of dark matter in clusters 25k+ light years away
- Hosted BP model and developed UI on GCP with aim to advance understanding of universe with increased accessibility and usage of model for scientists outside of Yale

**Consumer Credit Counseling Services**, Savannah, GA

*Data Science & Data Systems Architect Fellow*

Summer 2021, Summer 2020

- Automated reporting process with user interface and dashboard with features such as survey management, automatic data analysis, and up-to-date report generation on client feedback and outcomes for 500+ clients using google cloud technology
- Aggregated, filtered, and cleaned survey and administrative data and presented data report containing analysis on efficiency of company's debt-management services that clearly outlined key insights and solutions to drive improvements

**Data 2 the People**, *Data Science Fellow*, New Haven, CT

Summer 2021

- Delivered data-collection and analysis solution in 8 weeks for informed decision making for violence prevention program
- Designed and created web-based interactive data visualization to present urgent need for funding using D3.js

**Metis**, *Data Scientist*, New York, NY

Spring 2021

Accredited 14-week Data Science and Machine Learning immersive focused on data aggregating, wrangling, statistical modeling, supervised & unsupervised machine learning, deep learning, NLP, and data visualization.

- Most recent projects on my website

## LEADERSHIP

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**Yale VITA**, *Co-Director of Operations & Shift Coordinator*, New Haven, CT

Fall 2019 - Current

- Create and maintain new virtual platform for tax preparation volunteering and operations management of VITA chapter
- Manage shifts that total ~\$27,000 in refunds for clients per shift

**Yale Queer + Asian** *Co-President*, New Haven, CT

Spring 2019 - 2021

- Oversee and organize six major social events, speaker events, discussion events, along with weekly dinners
- Set meeting agenda and lead meetings with other board members to create a safe space for Yale's Asian Queer community

## SKILLS AND INTERESTS

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*Computer & Data Science:* Python, Pandas, Numpy, SQL, JS, Tableau, Bokeh, PowerBI, Machine Learning, Deep Learning, NLP, Data Engineering, R, Bayesian Statistics, Sequence Modeling, APIs, DBT, PyTorch, TensorFlow, Keras, Django, Classification, Regression, PySpark, MongoDB, GCP, Node.js, React, Web Scraping, Collaboration, Teamwork

*Interests:* Music (Electric Guitar & Dance), Martial Arts (Shotokan Karate)