

# Andrew Boylan

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<https://github.com/eastmountaincode/portfolio>

## EDUCATION

### Master of Science, Computer Science (ALIGN)

August 2021 – present

*Northeastern University, Boston, MA*

- Expected graduation: April 2023
- Selected coursework: DataCentric AI & Visualization, Object-Oriented Design, Data Structures & Algorithms, Database Management Systems (Summer 2022), Natural Language Processing (Fall 2022)

### Bachelor of Arts, Sociology

August 2019 – May 2021

*University of Cincinnati, Cincinnati, OH*

- GPA: 3.9 | Dean's List | Summa Cum Laude
- Selected Coursework: Python and R, Stats in Sociology, Statistics I, Sociology of Immigration, Chinese 1 & 2, Politics of China, Calculus I, Physics I

## EXPERIENCE

### Project Team Leader

February 2022 – April 2022

*Northeastern University / Pfizer*

- Collaborated with 4 other students and a project sponsor from Pfizer to develop an accessible bibliographic reference parser using regex and open-source machine learning packages
- Produced a ground truth dataset for all articles on PubMed (33 million entries) using web scraping with multithreading
- Developed a robust testing process for open-source machine learning parser CERMINE

### Research Assistant

January 2021 – August 2021

*Digital Scholarship Center at University of Cincinnati*

- Built NLP text classifiers using BERT, Multinomial Naïve Bayes, Linear SVC, etc.
- Produced usable, large-scale datasets via API pulls, web scraping, data cleaning, etc.
- Communicated weekly with a team leader to coordinate next steps for multiple simultaneous projects
- Analyzed NLP topic models, wrote reports, and presented findings to stakeholders

## PERSONAL PROJECTS

- Text regression of IMDB film reviews using Keras
- Empirically testing different imputation techniques for different amounts of missing data
- Investigating feature importance for Blue Bike trip duration using correlated data from Weather Underground

## VOLUNTEER EXPERIENCE

### Canvasser

August 2020

*People's Safety Reimagined, Cincinnati, OH*

- Canvassed streets in teams of 2-4 to get signatures for a ballot initiative
- Explained a ballot proposal to hundreds of people with no prior knowledge of it

## SKILLS

### Technical:

- Experience working with Python, Java, C, Pandas, H2O AutoML, scikit-learn, Keras, Selenium, Requests, SHAP, TextBlob, spaCy, Git, GloVe

### Transferable:

- Able to navigate diverse personality types and communication styles
- Able to see complexity and interconnectedness in problems that appear to be simple
- Able to facilitate meetings and maintain focus