

Claire C. O'Neill

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EDUCATION

University of Michigan

Major in Data Science and Computer Science

GPA - 3.49 / 4.00

Relevant coursework: Programming and Introductory Data Structures, Data Mining, Linear Algebra, Object-Oriented Programming, Applied Regression Analysis, Data Structures and Algorithms

Ann Arbor, MI

Sep 2021 – May 2025

EXPERIENCE

IT Concepts, Vienna, VA

Jun 2023 – Present

Data Science Intern

- Began the development of the faux pass engine, a tool that can detect improper speech in corporate documents.
- Trained a Roberta base transformer that can identify offensive language in sentences with an 87% accuracy, to improve the performance of future versions of the faux pass engine
- Ingested data from the ADL's website, employing the Beautiful Soup and Pandas libraries from Python to collect and maintain the data
- Used Lang Chain to test the capabilities of 10+ large language models and generate unbiased test data

O'Neill Industrial Corporation

May 2022 – Present

Technical Support

- Downloaded Lockheed/ Sikorsky rotor wing airframe CATIA drawings and transferred them to CAD die less cutting production machines and production sewing tables
- Mediated communication between production and manufacturing teams by translating 100+ blueprints to 3D models that could be easily understood by all employees
- Consolidated hundreds of blueprints using Excel to store production models and manufacturing models in a more efficient manner

Launch, Forge, remote

Feb 2023 – Jun 2023

Data Science Student

- Completed 160+ hours of training developing skills in data visualization, database architecture, and machine learning through hands-on projects
- Used Kaggle data sets to provide insights on different industries, summarizing key findings through visualizations created in Python
- Constructed interactive dashboards using tableau to illustrate complex findings from EDA in a simplified manner

Michigan Polo Club, Ann Arbor, MI

Sep 2022 – Present

President and Treasurer

- Managed over \$10,000 to ensure the club had sufficient funds to operate using excel
- Raised revenue by 20% through fundraising campaigns and social media events
- Designed and ran merchandising for club, improving engagement and generating over \$1,000 in revenue
- Directed members of executive board throughout the semester and mediated communication between executive board and new members

PROJECTS

Final Project, Data Mining, Ann Arbor, MI

Mar 2023 – Apr 2023

- Aggregated the 2017-2020 pre-pandemic NHANES data to find key indicators of high LDL cholesterol
- Implemented the Lasso shrinkage method using R to filter out predictors that were not indicative of high LDL cholesterol in patients
- Created a random forest model in R to predict a patient's LDL cholesterol based on key predictors, improving the MSE by 4.5%

TECHNICAL SKILLS

Coding Languages: C++, Python, R, Java

Data Science Tools: Git, SQL, MongoDB, AWS, Tableau, Ubuntu, VS Code, Eclipse, Excel

Libraries: pandas, NumPy, Matplotlib, Scikit Learn, Transformers, spaCy, Beautiful Soup