Yidan Xu

Princeton, NJ   609-255-6634

yx265@cornell.edu   www.github.com/yidanxu92

EDUCATION

Cornell University   07/2021
Master in Computing & Information Science   Ithaca, NY

Tufts University   08/2019
Post-baccalaureate in Computer Science   Medford, MA

Cornell University, College of Arts and Sciences,   05/2015
Bachelor of Arts in Government   Ithaca, NY

TECHNICAL SKILLS

- **Programming Languages:** JavaScript, HTML/CSS, Python, Java
- **Tech Stacks:** React, Node.js, Express, npm, MongoDB
- **Developmental Tools:** Git, WebStorm, PyCharm, Visual Studio Code, Jupyter

PROFESSIONAL EXPERIENCE

Tradeweb Markets, Inc.   08/2020-12/2020
Software Engineering Intern   New York, NY

- Created a machine learning model to predict acceptance rate in bond sweep trading sessions.
- Used Python with Jupyter, sci-kit-learn, and pandas to interact with millions of records in the client's SQL database to create a Random Forest model that improved performance over the existing model by 40% on unseen test data.
- Contributed to the efficiency and reliability of their daily session by providing a model that was later added to their real-time pricing models.

Department of Government, Cornell University,   Jan 2014-May 2014
Research Assistant   Ithaca, NY

- Supported research of Peter Enns, assistant professor of American politics.
- Conducted a national public opinion poll and undertook extensive data collection and analysis using R.
- Analyzed related media to identify vital constituent issues.

PROJECTS

React Web Development   Fall 2023

- Developed a custom website for a client to track the progress of their new house, utilizing JavaScript and React for a dynamic, user-friendly interface.
- Implemented a searchable picture viewer, categorizing images by room and items, enhancing the client's ability to easily access and review specific aspects of their house.
- Ensured privacy and security by creating a partial demo version of the site with personal information removed, showcasing the project's capabilities: https://yidanxu92.github.io/house/

Data Visualization Using D3   Spring 2021

- Designed and executed an interactive data visualization project for INFO 4310 at Cornell University, focusing on hip-hop artist rankings.
- Employed Python for efficient data parsing and preparation, creating well-structured CSV files from complex user-ranking datasets.
- Developed a dynamic bar chart using HTML, CSS, JavaScript, and D3.js, enabling interactive exploration of artist rankings based on various methodologies (total score, average score, top 3, etc).
- Created a user-centric tool that dynamically redraws to reflect changes in ranking criteria, visually identifying the top-ranked rapper according to each method.