LUCAS GOVER

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PROJECTS

Published Political Science Research

📅 10/2022 - 05/2023
🔗 https://www.lucasgover.com/political-identity-decision-tree/

- Leveraging contemporary Natural Language Processing (NLP) techniques, I analyzed congressional social media posts to develop a sentiment analysis model, which was used to quantify the political bias in essays created by Large Language Models.
- Published research findings in The Commons: Journal of Politics

World Values Survey Data Visualization

📅 06/2023 - 07/2023
🔗 https://www.lucasgover.com/political-identity-decision-tree/

Developed a web-application which visualizes how personal identities can shape political values. Designed and built front-end user interface and data visualization, and integrated the back-end that uses machine learning to service queries.The website communicates complex political and identity dynamics in an easily understandable way, developing an intuitive yet detailed platform that can be used by both laymen and seasoned political scientists.

Generative AI Research

📅 01/2023 - 05/2023
🔗 https://www.lucasgover.com/pdfs/Birds.pdf

Working alongside a team, I explored the use of GANs for generating artificial birdsong. Throughout the project, we developed a novel data-transform for audio, and explored two architectures, Recurrent Neural Networks (RNNs) and Transformers, and their capability to model and generate realistic birdsong.

More Projects can be found on my website

🔗 https://www.lucasgover.com

EXPERIENCE

AI, Programming, & Leadership Lead Instructor

iDtech

📅 2023 - Present   📍 Chicago, IL & Cambridge, MA

- Advised and assisted instructors while teaching courses on Java, Python, Leadership, and Machine Learning. Students left with strong foundations in computer science. Students gave feedback for my classes such as "Fun time, very interactive and engaging learning" and "[Lucas] was kind, attentive, and lessons were easy to digest."
- Taught a course on Artificial Intelligence with NVIDIA at MIT, where students created and trained Computer Vision and Natural Language Processing models, and gained confidence with the command line.
- Taught and developed lesson material for a course on Entrepreneurship, Leadership, & Communication in partnership with the Kellogg School of Management.

Computer Science Tutor and Teaching Assistant

University of Puget Sound

📅 09/2022 - 05/2023   📍 Tacoma, WA

- Provided in-depth tutoring to undergraduate students on a weekly basis. Tutored students in upper-level courses including software development, Algorithms, Statistics, Database Systems, Computer Graphics, and Artificial Intelligence.
- Multiple students received a two letter grade increase in their test scores with my assistance.

Resident Assistant

University of Puget Sound

📅 01/2021 - 05/2023   📍 Tacoma, WA

- Served as the go-to resource for the residents of my assigned residence hall for three years. Provided support, guidance, and direction for any issues that arose.
- Created multiple strong and supportive hall communities of first-year students. Additionally, I acted as a role model for the student body and help to create a positive living and learning environment.

EDUCATION

B.S. in Computer Science
University of Puget Sound
📍 Tacoma, WA

Department GPA
3.82 / 4.0

- Relevant Courses Include: Machine Learning, Database Management Systems, and Software Development.

B.A. in Political Science
University of Puget Sound
📍 Tacoma, WA

GPA
3.5 / 4.0

- Relevant Courses Include: Campaigns and Elections, Research Methods in Political Science, Contemporary Democratic Theory

LEADERSHIP, AWARDS, & COMMUNITY INVOLVEMENT

Phone Banking for Democrats   📅 07/2022 - 11/2022
Tony Evers & Wisconsin Democrats

Head of Design for The Commons Politics Journal   📅 01/2023 - 05/2023

President of UPE Comp Sci. Honor Society   📅 04/2022 - 05/2023
University of Puget Sound Chapter

Student Government Honor Court Justice   📅 10/2022 - 05/2023

Assistant Director   📅 08/2021 - 08/2022
EcoExplorers Summer Camp

AWARDS

🎖 **First Place in the Puget Sound Programming Contest**

🎓 **Deans List Student**
2022 - 2023

📄 **Edward Goman Math and Computer Science Award**

SKILLS

Python	Javascript	R	Java	SQL

Machine Learning	Git	D3.js

Relational Databases	C	Front-End

Statistical Modelling	AWS

CERTIFICATION

AWS Cloud Practitioner
Amazon Web Services, 2023