ADRIANNE TSAI

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Education

Boston University   **Sep. 2022 – present**
Bachelor of Computing and Data Sciences   *Boston, MA*

Relevant Coursework

- Data Structures
- Web Development
- Algorithms Analysis
- Statistical Methods
- Machine Learning
- Artificial Intelligence
- Systems Programming

Group Projects

Statistical Patterns in the Intersection of Major and Language (2023)

- Doing a research paper with three other classmates within the school campus, analyzing the relationship between students' major preference and their language ability based on the survey we made.
- Applied with analysis skills and statistical methods such as conducting hypothesis tests, calculating p-values and z-values, and accessing normality distribution.
- Mainly using JMP to get the statistic result and generate relationship graph.

Predicting Happiness through Crime and GDP (2023)

- Used Python for data visualization, creating linear regression and bar plot to explore the correlation between happiness, crime rate, and GDP.
- Implementing machine learning methods such as Random Forest, and k-NN. Additionally, using seaborn for clear and informative visualization.
- Demonstrate basic statistical and analysis skills.

Personal Projects

Facebook Social Network Analysis (2024)

- Using Rust to analyze the relationships between users on Facebook through their friend lists, utilizing techniques like clustering, random walk, and similarity metrics to better understand an online community.

Restaurant Recommendation in Korea (2024)

- Developed the front-end of a restaurant recommendation website using HTML, CSS, and JavaScript, optimizing layouts and styling to enhance user navigation and engagement.
- Organized and structured restaurant data by cuisine type (Korean, Chinese, Japanese, Fusion), enabling users to easily browse and filter recommendations.
- Implemented dynamic content features for efficient restaurant data management and real-time updates, improving user experience.

Work Experiences

Volunteer, Luv Michael Organization   **July 2021 – August 2021**
Volunteer Advocate   *Remote*

- Advocate to share misunderstood information about the Autism community within my peer group to foster a more supportive and inclusive environment.

Accountant, BES Engineering Co.   **August 2023 – September 2023**
Accounting Analyst   *Taipei, Taiwan*

- Engage in accounting tasks. I analyze past accounting fraud cases and examine general issues in China from accounting and economics perspectives.

Participants, Hack4Impact   **September 2024 – December 2024**
React Workshop   *Boston, MA*

- Gained practical experience in building responsive, dynamic websites using React for the frontend and integrating it with backend technologies to create a seamless user experience.

Technical Skills

Programming Languages: Python, HTML/CSS, Javascript, Rust, SQL
Languages: Fluent in Mandarin
Software/Tools: Excel, Tableau
Skills: Statistical Analysis