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Elaine Yuan

New York, NY

LinkedIn
Github

Technical Skills

Data Analysis	Excel/Google Sheets, SQL, Python, Tableau
Data Management	Amazon Web Services

Data Analysis Projects

Always Alien: An Analysis of Anti-Asian Hate Crimes | SQL, Tableau, PowerPoint | July 2022

Analyzed 219,576 records of national hate crime data and 1,296 records of NYPD hate crime data

- Queried NYPD hate crime data using SQL to understand when and where anti-Asian hate crimes occurred in New York City and utilized geospatial data files in Tableau to build visualizations
- Calculated the increase of anti-Asian hate crimes from 2019 to 2020: a 94% increase nationally contrasted with a 2700% increase in New York City
- Determined Queens to be the safest borough with a rate of 4 anti-Asian hate crimes per 100,000 Asians using SQL and visualized the incident count per capita in each borough using Tableau
- Designed interactive dashboards in Tableau for audience members to explore a three-decade history of national hate crimes and recent hate crimes by bias in New York City

Journey to the Best: Global and Chinese Growth in Green Energy | Excel, Tableau, PowerPoint | June 2022

Studied 9,745 total records of renewable energy data and 34,936 records of global power plant data

- Examined the worldwide growth of renewable energy generation and global power plant capacity in Tableau and discovered a 445% increase in hydroelectricity generation from 1990 to 2019
- Surfaced insights and animated visualizations on Chinese leadership in the green energy sector using Tableau: in 2019, China produced 30% of global hydro energy, 28% of global wind energy, and 33% of global solar energy
- Recommended the development of nonrenewable nuclear energy: although nuclear power plants are <1% of total power plants, they accounted for 7.15% of global power plant capacity

Education

Fullstack Academy, New York, NY | Certificate in Data Analytics, July 2022
    NYC Tech Talent Pipeline Data Analytics Training Accelerator (DATA) Fellow

Wheaton College, Norton, MA | Bachelor of Arts, May 2015
    Majors: Psychology and Elementary Education

Certifications

- Tableau Desktop Specialist Certificate, July 2022
- Google Data Analytics Professional Certificate, July 2022

Work Experience

Assistant Language Teacher | Japanese Exchange and Teaching (JET) Program | July 2017 – September 2021

- Recorded and summarized the student performance of 560 senior high school students across two schools each year in Excel spreadsheets
- Planned and presented lessons and materials on a variety of topics, including Black Lives Matter, American Politics, and Eurovision, to co-teach to classes of 20-40 students
- Co-led and led three workshops introducing jigsaw learning to 12-25 participants