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Mapping UFO Sightings in the US and Canada from 2016

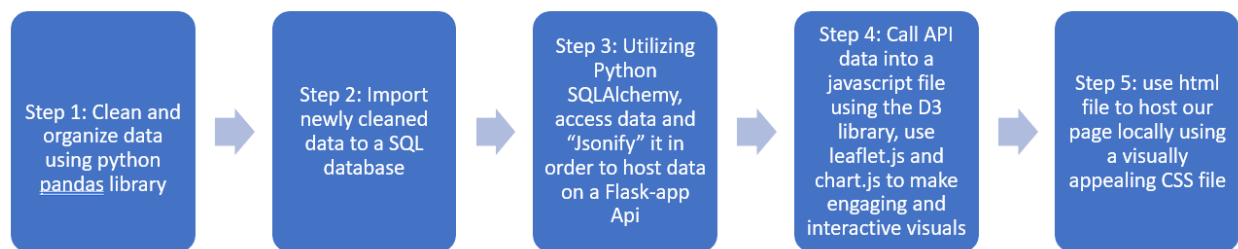
Dataset: <https://www.kaggle.com/datasets/utkarshx27/ufo-sights-2016-us-and-canada>

GitHub: <https://github.com/csakauye/project-3>

Process:

- Step 1: Clean and organize data using python pandas library
- Step 2: Import newly cleaned data to a SQL database
- Step 3: Utilizing Python SQLAlchemy, access data and “Jsonify” it in order to host data on a Flask-app Api
- Step 4: Call API data into a javascript file using the D3 library, use leaflet.js and chart.js to make engaging and interactive visuals
- Step 5: use html file to host our page locally using a visually appealing CSS file

ETL:



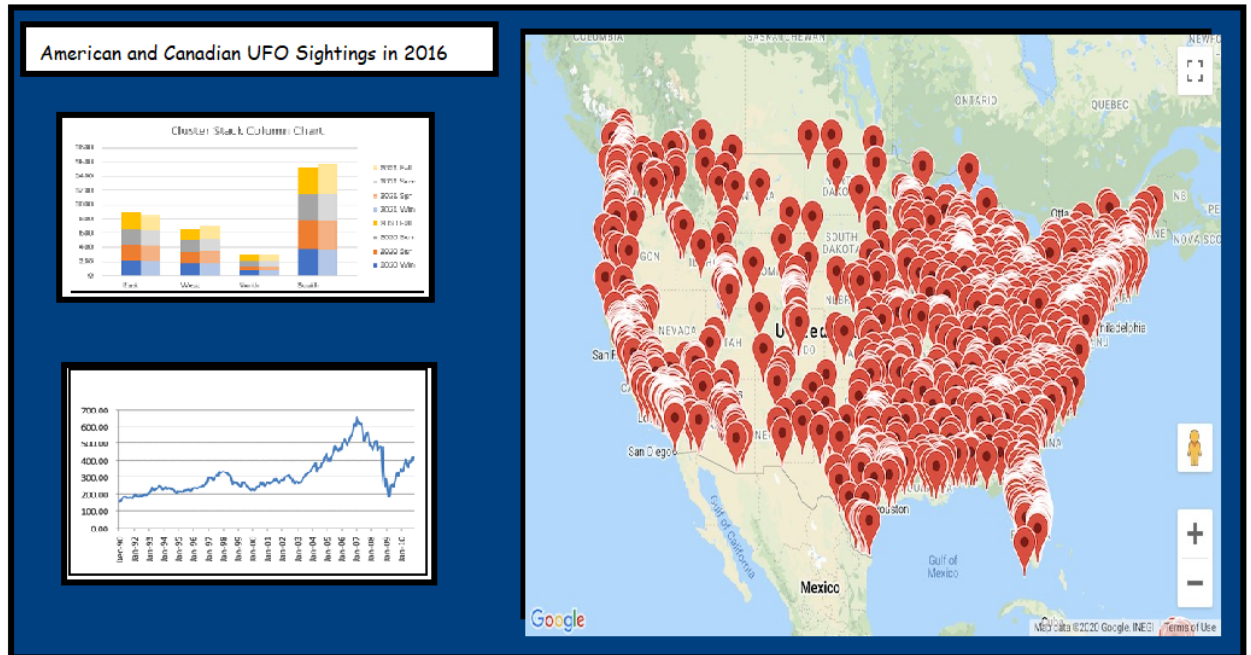
Questions:

- Where did the majority of UFO sightings take place in 2016 across the US and Canada?
- What state/province saw the most UFO sightings?
- What shape UFOs were seen the most?
- What month had the most UFO sightings?

Final Product:

- An interactive map that shows markers for each UFO sighting, with a drop down map so that users can choose which “type” of UFO to view (sorted by shape), and click on each marker for a brief description of the sighting
- A stacked bar chart of UFO sightings by US State and Canadian Province, also showing the frequency of UFO shapes from each location
- A time series graph showing the frequency of sightings by month for the year of 2016

Accurate Sketch of Final Design:



Inspiration:

<https://www.heavensgate.com/>

<https://www.spacejam.com/1996/>

<https://www.arcgis.com/apps/View/index.html?appid=6cd609921ebc44ff914a4e8059813b16>