DATA ANALYSIS

UFO SIGHTINGS

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ASSIGNMENT - JAVASCRIPT

PROJECT INTRODUCTION:

This purpose of this assignment is to read in the data from a list of dictionaries of UFO sightings to a table that allows users across the world to fetch this information.

TECHNICAL REQUIREMENTS:

- JavaScript
- D3.js
- HTML
- CSS

CODE EXPLANATION:

For designing the code, we used a dataset provided with list of dictionaries and loaded them to a table with JavaScript. After the reading the data into a table, we designed HTML page to provide an interactive web page that could help get specific data based on filters within a form (can search with a single or multiple filters).

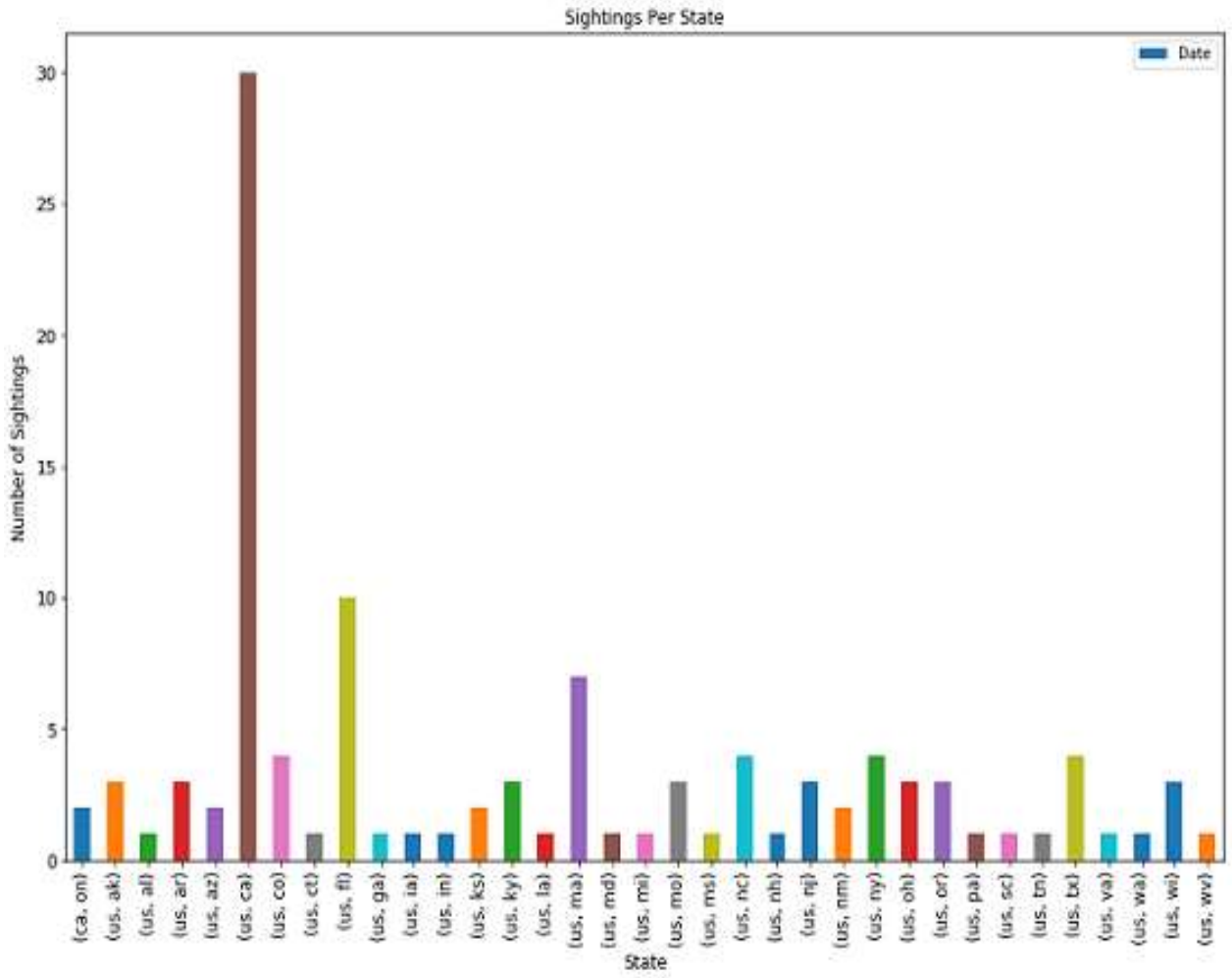
OBSERVATIONS:

- The dataset contains a greater number of sightings reported in US than any other countries. 109 sightings were reported in US whereas only 2 sightings were reported in Canada.

```
grouped_country = data.groupby(["Country"])["Date"].count()
grouped_country
```

```
Country
ca      2
us    109
Name: Date, dtype: int64
```

- The bar graph below determines the majority of sightings (around 30 sightings) reported by “California” state.



LIMITATIONS:

- The dataset we are provided with contained data that is limited to two countries, United States and Canada.
- Also, we could see that we have data for only 13 days and it is more than 9 years old. (~ 110 sightings)
  For instance, when tried to get some recent updates on sightings, I visited a site, http://ufostalker.com/, which reports more than 5000 sightings in just last year.
- The graph below indicates a higher number of UFO sightings reported on 1/1/2010. It is good to see such high number of sightings for same day as the probability gets increased for evidencing a UFO. But there remains only a chance of UFO sighting not being accurate for this day being a New Year's Day and it is much likely that people could have sighted some object shapes with bright lighting which could have been due to fireworks and lightings.