Project 1

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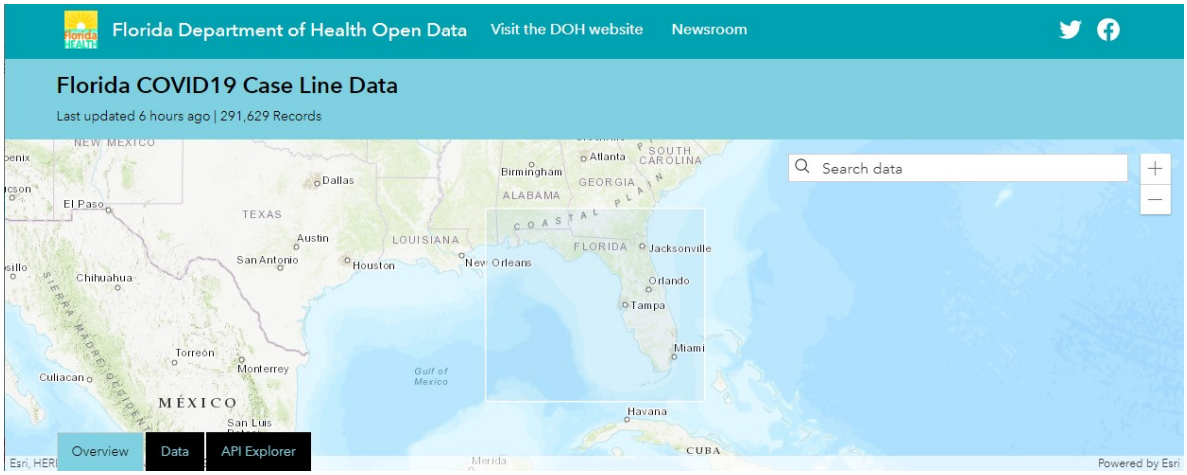

Data set used::

- https://open-fdoh.hub.arcgis.com/datasets/florida-covid19-case-line-data

```
import pandas as pd
df = pd.read_csv("Resources/Florida_COVID19_Case_Line_Data.csv")
df.head(3)
```

[6]:

	ObjectId	County	Age	Age_group	Gender	Jurisdiction	Travel_related	Origin	EDvisit	Hospitalized	Died	Case_	Contact	Case1	EventDate	ChartDate
0	1	Pinellas	32.0	25-34 years	Male	FL resident	No	NaN	NO	NO	NaN	Yes	Yes	2020/03/18 05:00:00	2020/03/08 00:00:00	2020/03/18 05:00:00
1	2	Pinellas	20.0	15-24 years	Female	FL resident	Yes	FRANCE	NO	NO	NaN	Yes	NO	2020/06/23 05:00:00	2020/06/22 00:00:00	2020/06/23 05:00:00
2	3	Citrus	80.0	75-84 years	Male	FL resident	Yes	DE	YES	YES	Yes	Yes	Yes	2020/03/18 05:00:00	2020/03/14 00:00:00	2020/03/18 05:00:00

Hospitalizations rate in Florida has changed since reopening?

Research Question to Answer:

- "Has hospitalizations (#) in Florida changed since reopening?"

Part 1: Six (6) Steps for Hypothesis Testing

▶ click to expand

1. Identify

- **Populations** (divide Hospitalization data in two groups of data):
    1. Prior to opening
    2. After opening
- Decide on the **date**:
    - May 4th - restaurants opening to 25% capacity

    - June (Miami opening beaches)
- Distribution:
    - Distribution

2. State the hypotheses

- **H0**: There is no change in hospitalizations after Florida has reopened
- **H1**: There is a change in hospitalizations after Florida has reopened

3. Characteristics of the comparison distribution

- Population means, standard deviations

4. Critical values

- p = 0.05
- Our hypothesis is nondirectional so our hypothesis test is **two-tailed**

5. Calculate

6. Decide!

Part 2: Visualization

- Trends

Further Inquries

- Increases in groups?
- Age
- Gender
- Ethnicitiy

Rough Breakdown of Tasks

- Data Massaging