# Meeting Saturday 8am -10am

# Final Project

# Selected topic and Why and Questions we hope answer

# Hypothesis: Everyone has heard the tale about weird things happening during a full moon. The police, fire rescue, service operators and hospitals are speculated to see a spike in calls during a full moon phase. To accomplish this analysis during the four moon phases (New moon, First Quarter, third quarter, and full moon) we will look at the calls for service in Gainesville, Florida that went to the police and the fire rescue department between the years 2018 and 2021. There is some assumption that following March 2020 the calls to service may trend a bit differently due to the introduction of COVID-19.

1. Does the moon phase affect the calls for service?

We selected this topic to verify if there is any correlation to the moon phases and calls to service to determine if the myth is simply a myth or a probable explanation for some of the weird things that happen when it is a full moon.

# Description of their source of data

Link to data

Link to data

# Technologies Used: possible dependencies and imports (Jacob)

- Microsoft Office CSV For Excel

- Python

- SQL

- Postgres

- Jupyter Notebook

- Pandas

- Tableau

- Machine Learning

- Dashboard

(sheri) Took data from the (link website) and compiled them to an excel. We created a unique column for the year as this dataset didn’t have one. The year date and month were merged to create a date type column. In addition, we removed the illumination column from the dataset as it was just a series or numbers with no known value.

After identifying the unique incident types we got rid of incidents that didn’t necessarily imply a crime occurred.

Unique incident types that were removed:

0 assist other agency,

2 assist citizen,

3 warrant arrest,

7 lost/stolen vehicle tag/ decal,

10 dcf investigation,

19 drug poss of controlled substance,

24 information,

72 found contraband,

74 tow report

79 recovered stolen veh,

115 stalking (simple),

136 found-returned,

192 seize tag

With the remaining unique incident types we decided to group them into the following categories:

Crime types: Drug, Alcohol, Assault, Battery, Fraud, Homicide, Theft, Suicide, Other

* Mockup ML: (Lawrence)- an idea of the possible algorithms to create this automation

OTHER NOTES:

Finding if there is a strong relationship between the models. The strength of the correlation then allows us to make an easier link for causation. Why might these things be correlated. Machine learning is all predictive and doesn’t actually understand.