Team Name: J3AC

Team Members:

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ETL Project Topic: **Weather Relation to Crime**

Hypothesis: Weather forecasts (e.g. rain, temperature, snow, etc.) affect crime types, rates, and demographics.

Null Hypothesis: Crime occurs irrespective of weather overcast.

Description: Weather relates to crime rates and type of crimes. Using weather API and FBI crime statistics. Also testing for the demographics of the victims and perpetrators to test if there are correlation between weather patterns crime types and rates. Any results could prove useful for law-enforcement agencies to employee flexible staffing during certain types of forecasts.

**Weather Data:**

Open Weather Map API: <https://openweathermap.org/>

Description: Weather data including cloudiness, rain, snow which can be pulled to correlate with time of day that which the crime was committed.

**Crime Data:**

Chicago, IL: <https://www.kaggle.com/chicago/chicago-crime>

Atlanta, GA: <http://www.atlantapd.org/i-want-to/crime-data-downloads>

Boston, MA: <https://data.boston.gov/dataset/crime-incident-reports-august-2015-to-date-source-new-system>

Los Angeles, CA: <https://www.kaggle.com/cityofLA/los-angeles-crime-arrest-data>

Denver, CO: <https://www.kaggle.com/paultimothymooney/denver-crime-data/downloads/denver-crime-data.zip/39>

Description: Data Ranges over the past 5 year approx., summarizing type of crime, day, and time of day each with tens-of-thousands of datapoints. Cities are selected to select a variety of weather patterns to allow for a variety of trend possibilities to be analyzed.