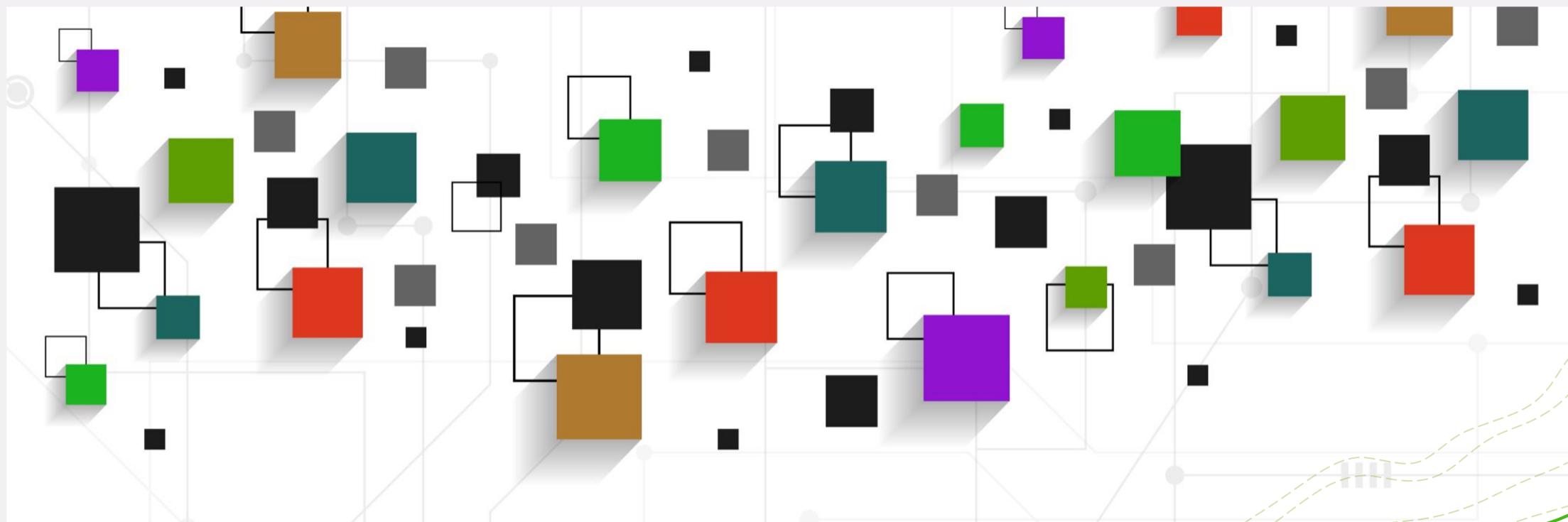


Chicago crime - Dataset

This dataset reflects reported incidents of crime that occurred in the City of Chicago from 2011 to 2020



Topic and Description

+ Topic: Data displaying of crime in Chicago City

+ Using historical crime data from the Chicago Police Department, we aim to display yearly information on the number of crimes by type, arrest, and location of each event.

+ Data source

+ City of Chicago Data Portal – Police Department

+ <https://data.cityofchicago.org/Public-Safety/Crimes-2001-to-Present/ijzp-q8t2>

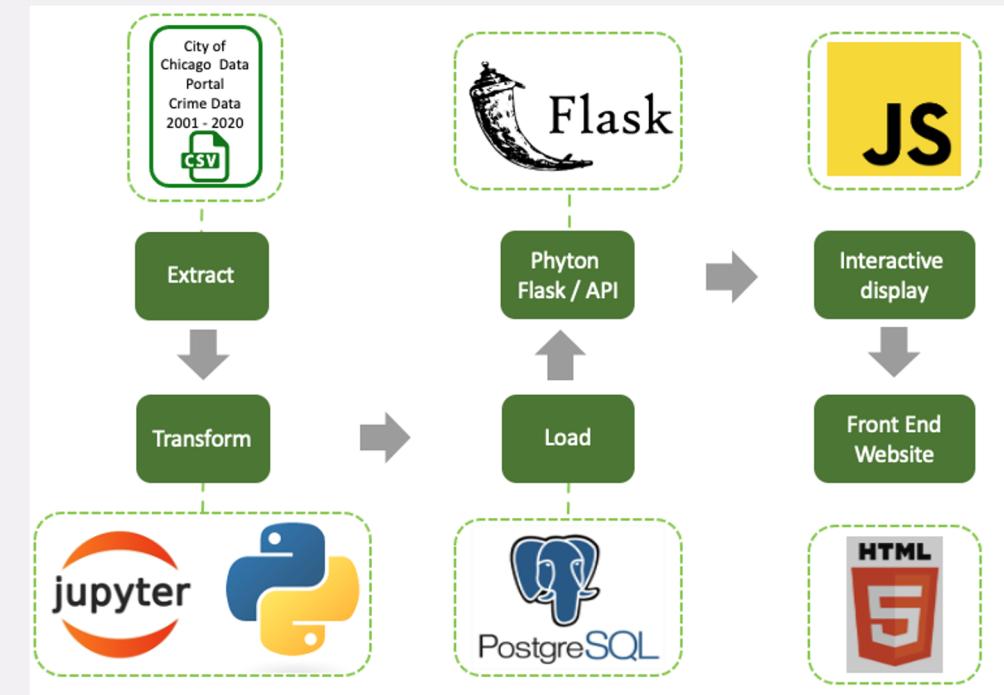
Code crafting

1. Extract and Transform Crime data

- + Dataset with 7.5M records
- + Jupyter notebook

2. Munging data into Database: SQL

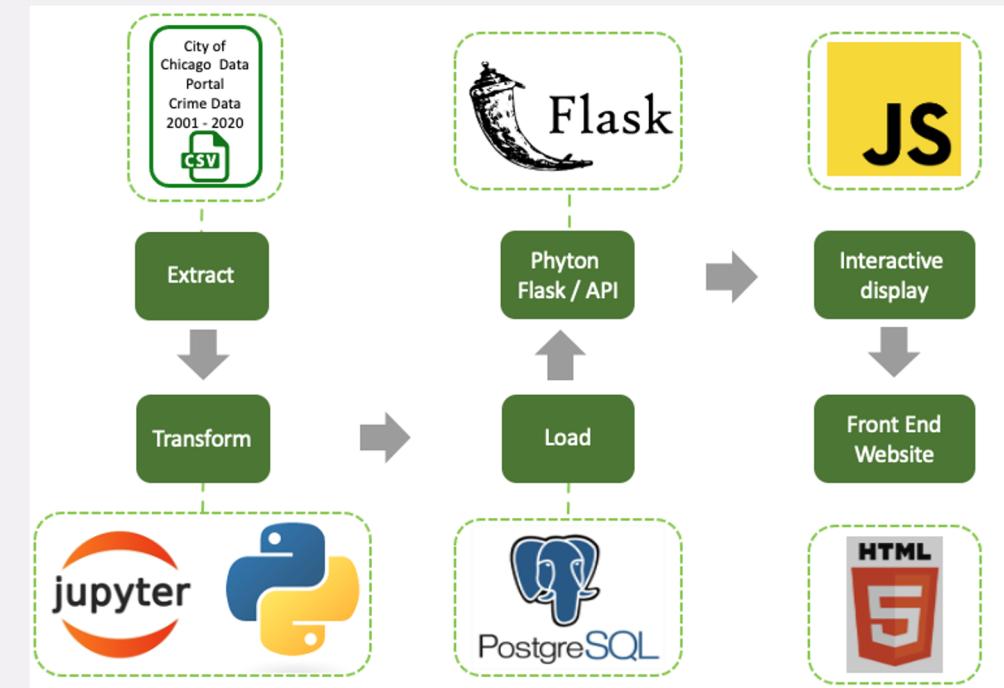
- + SQLAlchemy



Code crafting (CONT)

3. Flask app hosts our API endpoints – app.py
 - + /api/v1.0/dashboard
 - + /api/v1.0/year/<year>
 - + /api/v1.0/monthly/<year>/<primary_type>
 - + /api/v1.0/<year>/<primary_type>

4. Modeling data in JavaScript – app.js

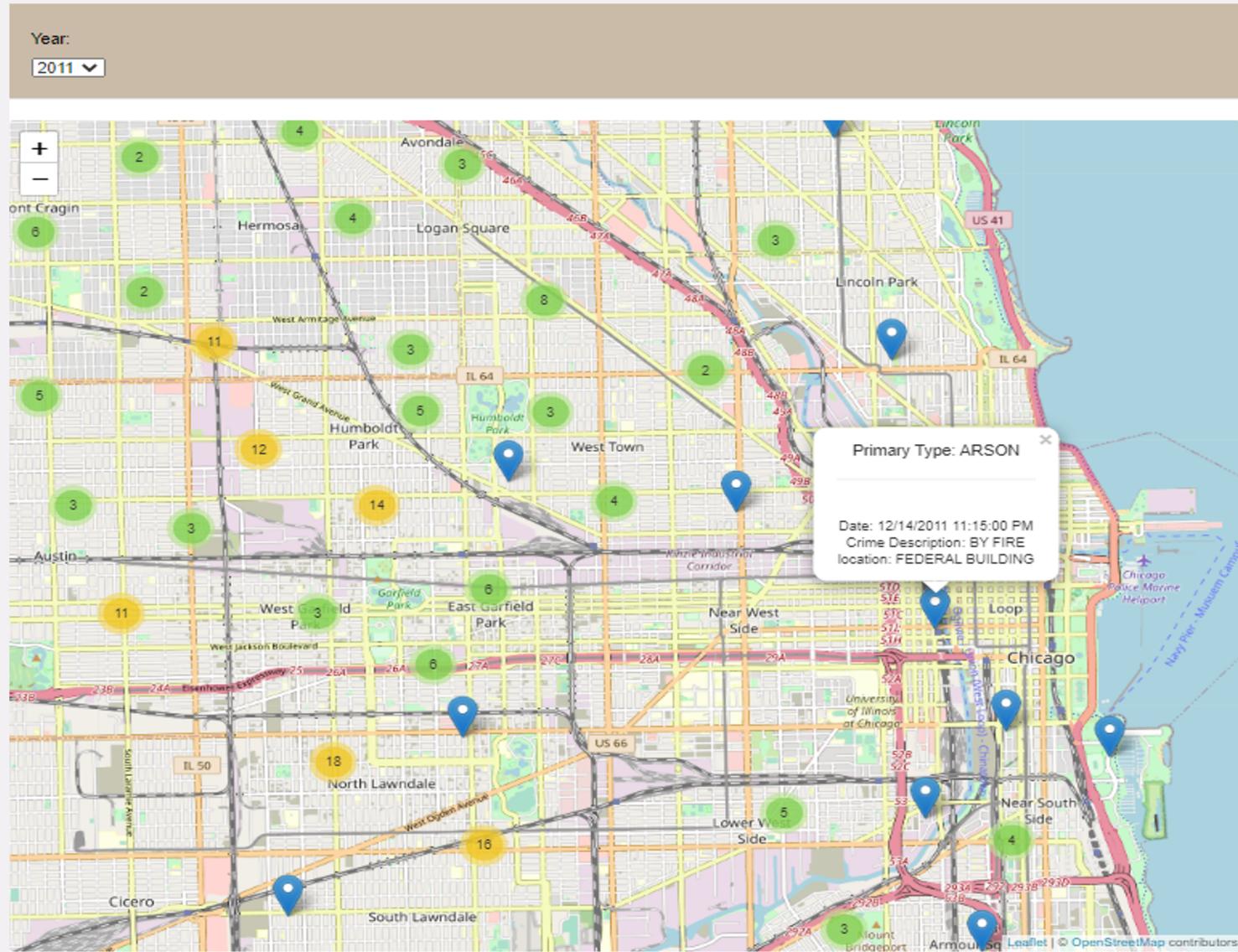


Tell the story with data

- + Displaying data – create an interactive dashboard that displays a map with the amount of crimes by type, along with a 3 graphs set.
 - + Crime type in a specific year by month.
 - + Arrests and not arrests by month over the year – Line Chart using JS library: Chart.js
 - + Total amount of arrests versus not arrests.
- + User-Driven Interaction: Dropdowns



Dashboard

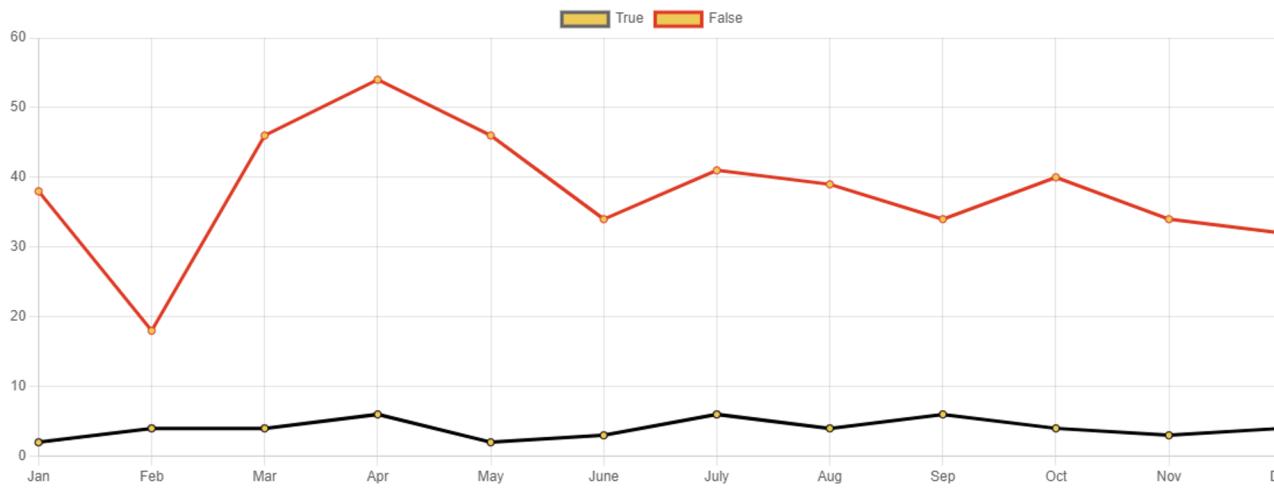


Dashboard

Monthly count of crime: ARSON



Monthly Arrest by Crime: ARSON



Arrest count for: ARSON

