## HYPOTHESIS

1. Crime against Asian population; increase/decrease. Time period dependent
2. Crime per/1k, based on income-level, education-level
3. ~~Crime per/1k vs CalFresh usage~~ (not sure if possible). Not possible. Confirmed county data only available
4. Crime per/1k, by type, based on location and or income-level (need to specify)

**TEAM**: MattJ, SanureetB, VeerpalS, JohnC

## KEY DATES

1. Presentation, 24-Jul

2. Dry run, 22-Jul

## DATASETS / SOURCES

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Description** | **Type** | **URL** |  |
| **1** | Oakland Crime | API | <https://data.oaklandca.gov/Public-Safety/CrimeWatch-Maps-Past-90-Days/ym6k-rx7a> |  |
| **2** | Hospitals | CSV | Matt to provide |  |
| **3** | Oakland Census Data | CSV | <https://www.census.gov/quickfacts/oaklandcitycalifornia> |  |
| **4** | Open Justice – Types of crime | CSV | <https://openjustice.doj.ca.gov/data> |  |
| **5** | Oakland PD (OPD) Beat Boundaries | Website | <https://oakgis.maps.arcgis.com/apps/OnePane/basicviewer/index.html?appid=12ae8a087be44043abc6996c5e499d5c> | 1. Use Inspect tool to see png files    1. Under elements. Select “<div id="map\_OPDDistrictsBdrysBeats\_5201”    2. Select “Sources” in the inspect tool menu 2. c) Click Path: gisapps1.mapoakland.com -> Oakgis/rest/services/Prod -> OPDDistrictsBdryBeats/MapServer |
| **6** | OPD Info | Website | <https://www.oaklandca.gov/resources/find-a-police-area-or-beat> | Contains beat maps and policing areas |
| **7** | How to reduce violent crimes | PDF | <http://www2.oaklandnet.com/oakca/groups/police/documents/webcontent/dowd007487.pdf> |  |
| **8** | Education stats | Website | <http://www.ed-data.org/district/Alameda/Oakland-Unified> | Data visualized in charts. Raw data can be found here:  <https://www.cde.ca.gov/ds/ad/downloadabledata.asp> |
| **9** | Geospatial data |  | <https://oakland-oakgis.opendata.arcgis.com/datasets/oaklandcitylimits/explore?location=37.770882%2C-122.207400%2C11.85> | Download options include GeoJSON |

## OTHER SOURCES

1. Placeholder

## CRIME CATAGORIES

1. Violent crime
   1. Murder
   2. Rape
   3. Robbery
   4. Assault
2. Property crime
   1. Burglary
   2. Theft
   3. Vehicle theft

## STATISTICS

1. Reported incidents

2. Oakland per/1K people

3. California per/1k people

4. National per/1k people

## HIGH-LEVEL TASKS / LIBRARIES

1. Finalize hypothesis
2. Identify data sources
   1. Pull data
   2. Clean & munge data
3. Create database
4. Decide/agree on data to expose
   1. Crime type
   2. Oakland PD beat overlay
5. Web page
   1. Website architecture – plan/design site info structure
   2. Decide on presentation elements
6. Python Flask API
7. HTML/CSS/JavaScript
   1. Bootstrap
   2. Leaflet

## ROLES & RESPONSIBILITIES

1. SQL-Veerpal

2. Github- Sanureet

3. Visualization - Matt

4. HTML -John / Sanureet

## AVAILABILITY

- Matt: after 8pm

- Sanureet: after 7:30

- John: after 5:00, available during day if needed.

## ACTIONS

1. Github – Sanureet. Done
2. List possible sources – John. Done
3. Everyone: Review data sources; provide feedback which data we should use. Take vote
4. Settle on hypothesis
5. Project plan/timeline- John. EOD 11-July

## WEBSITE INSPIRATIONS (LINKS)

1. [Leaflet Crime Dashboard](https://crime-dashboard.herokuapp.com/index.html).
2. [Leaflet Crime](https://hermionewy.github.io/crime/index.html) Website (great visual examples using Leaflet)
3. [Leaflet usage](https://www.city-data.com/crime/crime-Oakland-California.html)
4. [Visualization - Menus](https://www.opendatanetwork.com/entity/1600000US0653000/Oakland_CA/crime.fbi_ucr.count?crime_type=Aggravated%20assault&year=2018)
5. [Oakland PD Beat Boundry Map](https://oakgis.maps.arcgis.com/apps/OnePane/basicviewer/index.html?appid=12ae8a087be44043abc6996c5e499d5c) (Uses boundary map overlay, drop down widgets, possible reuse icons/images)
6. [Website Ideas 1](https://spotcrime.com/CA/Oakland) (Cool icons)
7. [Crime Analytics Visualization](https://www.neighborhoodscout.com/ca/oakland/crime#:~:text=With%20a%20crime%20rate%20of,here%20is%20one%20in%2013.) (Charts, tables)