A.M.O.K

Project Scope

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# Crime Rates vs. Demographics

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# Overview

## Project Background and Description

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|  | The scope of the project is to review census data and crime data to determine any correlation between the data sets in a chosen location for a chosen time period. Location and time period to be decided later depending on data obtained. |

How have hurricanes effected economy (data.gov), average income (census), crime rates (crime), etc. in Houston

Alicia – 1982 - 1984

Katrina – 2004 – 2006

Ike – 2007 - 2009

## Research Questions

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|  | The questions this project will attempt to answer are: |

* Where are the highest crime rates?
  + What types of crimes are relevant?
* What is the average income per zip code where high crime rates?
* Did weather impact any of the datasets?
* Does legislature changes impact the datasets?

## Datasets to be used

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|  | Data sources and API request examples |

* Source for crime data:
  + <https://crime-data-explorer.fr.cloud.gov/api>
  + Sample API request:
    - <https://developer.nrel.gov/api/alt-fuel-stations/v1/nearest.json?api_key=cUxFfW9JvEqPiKZonnynl1B1SXaJOc0hpyvjtjkq&location=Houston+TX>
* Source for demographic data:
  + <https://api.census.gov>
  + Sample API requests:
  + [https://api.census.gov/data/2017/acs/acsse?get=K200001\_001E,NAME&for=state:\*&key=YOUR\_KEY\_GOES\_HERE](https://api.census.gov/data/2017/acs/acsse?get=K200001_001E,NAME&for=state:*&key=YOUR_KEY_GOES_HERE)
  + <https://api.census.gov/data/2017/acs/acsse?get=K200001_001E,NAME&for=state:01&key=YOUR_KEY_GOES_HERE>

## Tasks

* Obtain Census data
* Obtain Crime data
* Create Jupyter Notebook for data exploration and cleanup
* Create Jupyter Notebook for final data analysis
* Create Matplotlib for 6-8 graphical representations to reflect the data
* Create PNG images of those graphs
* Create summary document
* Create presentation
* Practice presentation
* Present to class

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