**Team Name**: MMA

**Team Members**: Mark, Aditya, Michelle

**Project title**:

**Project description**:

Explore data related to the food deserts in Chicago.

**RQ**s:

* Where do food deserts exist in Chicago?
  + - <https://www.kaggle.com/carrie1/food-environment-atlas>
    - <https://www.ers.usda.gov/data-products/food-environment-atlas/data-access-and-documentation-downloads/>
  + General Overview – Chicago map
  + Farmer’s market location impact on food accessibility
* What factors are correlated with food deserts?
  + Is there a higher concentration of fast food locations in food deserts?
    - <https://www.kaggle.com/datafiniti/fast-food-restaurants>
  + Are there any areas that qualify as food deserts in non-low-income areas?
    - <https://data.cityofchicago.org/Health-Human-Services/Census-Data-Selected-socioeconomic-indicators-in-C/kn9c-c2s2>
    - <https://data.cityofchicago.org/Health-Human-Services/Per-Capita-Income/r6ad-wvtk>
* Is there a higher rate of food related crimes in food deserts?
  + - <https://data.cityofchicago.org/Public-Safety/Crimes-2018/3i3m-jwuy>
* Is there a correlation between food deserts and public health factors related to prenatal care, preterm births, infant mortality, etc.?
  + - <https://data.cityofchicago.org/Health-Human-Services/Public-Health-Statistics-Selected-public-health-in/iqnk-2tcu>
    - <https://data.cityofchicago.org/Health-Human-Services/Public-Health-Statistics-Life-Expectancy-By-Commun/qjr3-bm53>

**Breakdown of Tasks**:

* Each team member will be responsible to answer a question
  + Access and clean dataset
  + Analysis and Visualization
  + Presentation – relevant slides for section

**Datasets**:

Chicago Data Portal

* <https://data.cityofchicago.org/>
* <https://data.cityofchicago.org/Environment-Sustainable-Development/Farmers-Markets-Map/atzs-u7pv>
* <https://data.cityofchicago.org/Health-Human-Services/Census-Data-Selected-socioeconomic-indicators-in-C/kn9c-c2s2>
* <https://data.cityofchicago.org/Health-Human-Services/Public-Health-Statistics-Selected-public-health-in/iqnk-2tcu>
* <https://data.cityofchicago.org/Health-Human-Services/Public-Health-Statistics-Life-Expectancy-By-Commun/qjr3-bm53>

Data.gov – Chicago Datasets (756)

* <https://catalog.data.gov/dataset?organization=city-of-chicago>
* <https://catalog.data.gov/dataset/urban-farms-7e834>

Kaggle

* Food environment atlas 2018
* Chicago grocery stores 2013 (dated look for more recent data)
  + <https://www.kaggle.com/chicago/chicago-grocery-stores-2013>
* Chicago Public Health Statistics
  + <https://www.kaggle.com/chicago/chicago-public-health-statistics>
* Chicago Shape Files
  + <https://www.kaggle.com/threadid/chicago-shape-files>
* Chicago affordable rental housing
  + <https://www.kaggle.com/chicago/chicago-affordable-rental-housing-developments>
* Fast food restaurants across America
* SNAP Benefits Recipients Data Collection
  + <https://www.kaggle.com/census/snap-benefits-recipients-data-collection>

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**Misc.:**

Definition – USDA Defines food deserts:

“Food deserts are defined as parts of the country vapid of fresh fruit, vegetables, and other healthful whole foods, usually found in impoverished areas. This is largely due to a lack of grocery stores, farmers’ markets, and healthy food providers.

This has become a big problem because while food deserts are often short on whole food providers, especially fresh fruits and vegetables, instead, they are heavy on local quickie marts that provide a wealth of processed, sugar, and fat laden foods that are known contributors to our nation’s obesity epidemic. The food desert problem has in fact become such an issue that the USDA has outlined a map of our nation’s food deserts, which I saw on Mother Nature Network.” (<http://americannutritionassociation.org/newsletter/usda-defines-food-deserts>)

Articles:

<https://www.ers.usda.gov/data-products/food-access-research-atlas/>

<https://www.npr.org/sections/thesalt/2013/03/13/174112591/how-to-find-a-food-desert-near-you>

<http://villagenewsonline.com/2019/04/23/county-officials-address-food-deserts/>

<https://www.quora.com/What-are-the-primary-causes-of-food-deserts-in-urban-American-cities>

Chicago Related articles:

<https://www.chicagoreporter.com/food-deserts-persist-in-chicago-despite-more-supermarkets/>

<https://news.uchicago.edu/story/food-deserts-dont-benefit-more-supermarkets-chicago-study-finds>

<https://southsideweekly.com/opinion-solution-food-deserts-isnt-just-food/>

<http://www.redlineproject.org/chicago-food-deserts.php>

<https://www.citylab.com/equity/2018/01/its-not-the-food-deserts-its-the-inequality/550793/>

<https://news.wttw.com/2017/09/18/new-law-requires-illinois-track-food-deserts>

<http://www.chicagotalks.org/?p=2708>

<http://chicagopolicyreview.org/2019/04/17/chicago-food-more-supermarkets-do-not-mean-healthy-food-for-all/>

Notes Potential Qs

* 1
  + What factors are correlated with food deserts?
  + What kind of relationship exists between the price of food and the health of the population?
  + Which communities are high risk for children in terms of access to healthy food?
* 6
  + You can use this data to [rank cities with the most and least fast food restaurants across the U.S.](https://datafiniti.co/fast-food-restaurants-america/). E.g.:
  + Cities with the most and least McDonald's per capita
  + Fast food restaurants per capita for all states
  + Fast food restaurants with the most locations nationally
  + Major cities with the most and least fast food restaurants per capita
  + Small cities with the most fast food restaurants per capita
  + States with the most and least fast food restaurants per capita
  + The number of fast food restaurants per capita