**Project Design Writeup**

* **Requirements:**
  + Well-articulated problem statement with "specific aim" and hypothesis, based on your lightning talk
  + An outline of any potential methods and models
  + Detailed explanation of extant data available (ie: build a data dictionary or link to pre-built data dictionaries)
  + Describe any outstanding questions, assumptions, risks, caveats
  + Demonstrate domain knowledge, including specific features or relevant benchmarks from similar projects
  + Define your goals and criteria, in order to explain what success looks like

Data Sources:

<https://www.census.gov/topics/income-poverty/poverty/guidance/data-sources.html>

# Assessing the Low-Income Housing Tax Credit

## Background

A common criticism of our federal housing policy is that it concentrates poverty. So the analysis will need to be done at the Census Tract level.

The states control the allocation of funds by their own rules. So, the state’s policies are crucial to understanding the effectiveness of the program.

The low-income housing tax credit is a (steal this from the OPEX report)

## Questions

Are Census Tracts with LIHTC projects more likely to concentrate poverty? If so, to what degree, and are different states able to manage this process better than others?

## Methods

I plan on using a machine learning algorithm to determine if the s

API Call on the Census Bureau:

|  |  |
| --- | --- |
| Data profile | Geography |
| DP0362 – Median Household Income | Census tract |

Filtering out census tracts that only have 1 project in them.

## Questions, Assumptions, Risks, and Caveats

## Domain Knowledge

## Goals

Are we concentrating poverty?

Are certain states more effective at minimizing the concentrations of poverty?

What are measures of poverty?

* Income