Data Documentation

Webpage 2

1. Social Vulnerability Composite Index for the US and NC
   a. **Data Source**: data for all the calculations required by this page is from [Household Pulse Survey of United States Census Bureau](#).
   b. **Update Schedule:** weekly data from April 23 are updated on each Thursday with a lag of 1 week
   c. **Calculation:** for both the **entire population** and the **different subgroups**, the composite index is calculated as following,
      i. Composite Index = Average of {%Anxious, %Worry, %Little Interest, %Depressed, %Delay in Healthcare, %Unable to Get Healthcare, %Food Insecure}
      ii. %Anxious, %Worry, %Little Interest, %Depressed, %Delay in Healthcare and %Unable to Get Healthcare are calculated following the same procedure as the same variable in Webpage 2
      iii. Question asked: food sufficiency in the last 7 days
         Notations for the answers:
         1. ET: number of people who answered "Enough of the types of food wanted"
         2. EF: number of people who answered "Enough food, but not always the types wanted"
         3. SN: number of people who answered "Sometimes not enough to eat"
         4. ON: number of people who answered "Often not enough to eat"
         %Food Insecure = (SN + ON) / (ET + EF + SN + ON)

2. %Change in Employment compared to Jan 2020 for the US and NC
   a. **Data Source**: [Opportunity Insight](#) (Collected from [Earnin](#), [Paychex](#), and [Intuit](#))
   b. **Update Schedule:** daily data from Jan 8, 2020 to the most recent observation are updated irregularly.

3. %Change in Low Income Household Earnings compared to Jan 2020 for the US and NC
   a. **Data Source**: [Opportunity Insight](#) (Collected from [Earnin](#) and [Homebase](#))
   b. **Update Schedule:** daily data from Jan 8, 2020 to the most recent observation are updated irregularly.

4. %Change in Low Income Education Outcomes compared to Jan 2020 for the US and NC
   a. **Data Source**: [Opportunity Insight](#) (Collected from [Zearn](#))
   b. **Update Schedule:** weekly data from Jan 8, 2020 to the most recent observation are updated irregularly.
   c. **Calculation**
      i. % Change in Low Income Education Outcomes = Average{Engagement_inclow, Badges_inclow}

ii. Engagement_inclow: data for % change of students using Zearn platform relative to Jan 6, 2020 to Feb 21 2020 for schools in the 25% of ZIP codes with the lowest median income, from Opportunity Insight.

iii. Badges_inclow: data for % change of students achievements earned (badges) on Zearn platform relative to January 6-February 21 2020 for schools in the 25% of ZIP codes with the lowest median income, from Opportunity Insight.

5. % of Population Delaying Healthcare for the US and NC
    a. **Data Source**: data for number of people surveyed who experienced delay in getting medical care and unable to get medical care for both the UNS and NC is from Household Pulse Survey of United States Census Bureau.
    b. **Update Schedule:** weekly data from April 23 are updated on each Thursday with a lag of 1 week
    c. **Calculation:**
        i. % of Population Delaying Healthcare = Average of {%Delay in Healthcare, %Unable to Get Healthcare}
        ii. Notations for the answers to the survey question:
            1. Y: number of people who answered "Yes" to the survey question
            2. N: number of people who answered "No" to the survey question
        iii. Question asked: In the last four weeks, did you delayed getting medical care because of COVID-19 Pandemic?
        % Delay in Healthcare = Y / (Y + N)
        iv. Question asked: In the last four weeks, did you needed medical care for something unrelated to COVID-19, but did not get it?
        % Unable to Get Healthcare = Y / (Y + N)

6. % of Population Experiencing Anxiety or Depression for the US and NC
    a. **Data Source**: data for number of people surveyed who experienced anxious, worry, little interest and depressed for both the UNS and NC is from Household Pulse Survey of United States Cencus Bureau.
    b. **Update Schedule:** weekly data from April 23 are updated on each Thursday with a lag of 1 week
    c. **Calculation:**
        i. % of Population Experiencing Anxiety or Depression = Average of {%Anxious, %Worry, %Little Interest, %Depressed}
        ii. Notations for the answers to the survey questions:
            1. N: number of people who answered "Not at all" to the survey question
            2. SD: number of people who answered "Several days" to the survey question
            3. MH: number of people who answered "More than half the day" to the survey question
            4. NE: number of people who answered "Nearly everyday" to the survey question
        iii. Question asked: Over the last seven days, frequency of feeling nervous, anxious, or on edge

% Anxious = (MH + NE) / (N + SD +MH + NE)

iv. Question asked: Over the last seven days, frequency of not being able to stop or control worrying

% Worry = (MH + NE) / (N + SD +MH + NE)

v. Question asked: Over the last seven days, frequency of having little interest or pleasure in doing things

% Little Interest = (MH + NE) / (N + SD +MH + NE)

vi. Question asked: Over the last seven days, frequency of feeling down, depressed, or hopeless

% Depressed = (MH + NE) / (N + SD +MH + NE)