1. Project Data acquisition and cleansing:
   1. Data Source:

Data about Chicago socio economic indicators is available on the Chicago Data Portal. (https://data.cityofchicago.org/Health-Human-Services/Census-Data-Selected-socioeconomic-indicators-in-C/kn9c-c2s2/data )

The dataset downloaded from Chicago Data Portal contained a selection of six socioeconomic indicators of public health significance and a “hardship index,” by Chicago community area, for the years 2008 – 2017. The indicators are the percent of occupied housing units with more than one person per room (i.e., crowded housing); the percent of households living below the federal poverty level; the percent of persons in the labor force over the age of 16 years that are unemployed; the percent of persons over the age of 25 years without a high school diploma; the percent of the population under 18 or over 64 years of age (i.e., dependency); and per capita income.

* 1. Data Cleaning:

The data available where in % for all indicators showing the poverty and illiteracy in the Chicago area. These % had to be converted to show the prosperity.

All the records with no data in the vital columns where removed. Un-necessary columns where removed.

* 1. Feature Selection:

After data cleaning following socio economic indicators were consider to identify the area/community most suitable for a fine dining restaurants:

* Percent Households Above Poverty
* Percent Aged 25+ With High School Diploma
* Percent Aged Between Age 18 And 64
* Per Capita Income

From Foursquare API we got the following information on all the venues/business establishments in the community:

* Venue ID
* Venue Name.
* Venue Category of business
* Venue Latitude

Venue Longitude