**Team ATE**

**Project Title:**

Correlations Between Restaurants and Community Demographics (working title)

**Team Members:**

Group 8

Scott Gregory

Karla Pratts

Ryan Joyce

Joe Zhuo Zhuo

**Project Description/Outline:**

Exploring relationship between restaurants and city demographics

**Research Questions To Answer:**

What is the relationship between household/city information and the types of restaurants available in that area.

Correlations to explore:

|  |  |
| --- | --- |
| **City Info** | **Restaurant Info** |
| Income | Cuisine type |
| Ethnicity | Avg meal price |
| Marriage/child status | # of restaurants |
| Multigenerational cohabitation | Frequency of reservations (avails vs taken) |
| Avg age | Openings & Closings |
| Avg home price | Duration in years of operation |
| Occupation |  |
| Unemployment rate |  |
| Education level |  |
| Number of grocery stores in area |  |
| Voting history |  |
| Weather |  |
|  |  |

**Datasets To Be Used (with initial reviewer):**

Yelp (Joe)

OpenTable (Karla)

Zamato (Ryan)

Kaggle Food & Restaurants API (Ryan)

Weather API (Karla)

GoogleMaps API (grocery store, restaurants) (Scott)

Census (Household Income, Household members) (Scott)

**Rough Breakdown of Tasks:**

1. Looking through possible datasets and determining available info (due Monday 6/3)
2. Agree which datasets to use and which questions to answer (6/3)
3. Collect, clean, merge data (Tue 6/4)
4. Visualize/ Analyze: Round One. Review initial findings, determine next/more questions. What needs more research. (6/5)
5. Visualize/ Analyze: Round Two (6/8)
6. Identify conclusions and insights (6/10)
7. Build presentation & rehearse (6/10 - 6/12)