

# RESTAURANT REVIEWS

Draft 1.0

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# BACKGROUND AND OBJECTIVE

- Background : When traveling to a new city, you want to plan your restaurant reservations. However, there are many sources to choose from; restaurant critics to restaurant goers. This database will consolidate from several sources to create a more complete picture of restaurants for a more balanced, definitive view.
- The Dine-Out consolidator will do two things:
  - Different review sites attract different user profiles. The tool will pull data from three review sites to develop a composite rating across Google, Yelp and Zomato reviews to find the best of the best.
  - Other times, you have a restaurant in mind but want to see how the different sites rate the restaurant.
- This builds on the ETL project where Winnie, Hanuel and Avis built a database of the top restaurants from the three sites. In that project, the purpose was to find common restaurants that were identified in each site's top 100 for NYC. There was only one restaurant that appeared on all three sites, leading us to the conclusion that the profile of the users must be different for each of the sites.

# APPROACH

- To build the composite rating score:
  - Pull a random 1000 restaurants and their scores from each site
  - Normalize the scores by looking at the median of each site to derive the composite score
- Build a database of the top 500 restaurants from each site, build the composite score
- Ask the user for the city
- Display top restaurants on a map
  - Prioritize and flag restaurants that are in the top 50 of the composite score
  - Color code restaurants that show up on multiple sites in the top list
- Look for specific restaurant and display the review, key features and last 3 reviews from each of the sites

## TASKS TO COMPLETE

- Leverage database built in Project Two. Update the databases to extract more data points by city and pull additional cities. (estimated time: 50%)
  - Pull random 1000 restaurants for Toronto to build algorithm
  - Normalize the data variables (ratings, type of food, price, etc.) for the four cities
  - Calculate a composite rating for the restaurant based on all three sites
- Create a form so user can select the city, or restaurant (estimated time: 15%)
- (1) Display the top restaurants on a map, flag restaurants that appear in the top 100 list of more than one site, create a pop-up with the restaurant name, address, overall composite rating. (2) Create a consolidated profile page (estimated time: 30%)
- Write-up on project (estimated time: 5%)