**Project Proposal**

**Analyzing Bangalore Restaurants Using the Zomato Dataset**

**Introduction:**

The "Zomato Bangalore Restaurants dataset" refers to a dataset that contains information about restaurants located in Bangalore, India, sourced from the Zomato platform. Zomato is an online food delivery and restaurant aggregator service that provides extensive information about restaurants, their menus, user reviews, and ratings.

**Dataset:**

https://www.kaggle.com/datasets/himanshupoddar/zomato-bangalore-restaurants

**Features Description:**

● url : zomato url for the restaurants

● address : complete location of the restaurant

● name : name of the restaurant

● online\_order : whether restaurant accepts online order

● book\_table : whether restaurant provides option for booking table

● rate : restaurants rating on zomato website

● votes : number of individual who voted for restaurants

● phone : contact details of the restaurant

● location : area where restaurant is situated

● rest\_type : Type of restaurants (Categorical value)

● dish\_liked : what are all dishes of the restaurant that people liked

● cuisines : cuisines offered by the restaurant

● approx\_cost(for two people) : average cost for two people

● review\_list : reviews of the restaurant on zomato website

● menu\_item : menu items available in the restaurant

● listed\_in(type) : type of the restaurant

● listed\_in(city) : locality of the restaurant position

**The dataset contains 17 columns \* 51717 rows**

**Analysis Questions:**

1. Cuisine Distribution:

- What is the distribution of different cuisines in Bangalore's restaurants?

- Which cuisine type is the most popular among restaurants in Bangalore?

2. Price Analysis:

- How does the average cost for two people vary across different cuisines?

- Are there any correlations between the price range of a restaurant and its user ratings?

3. Location-based Insights:

- Where are the most densely populated areas for restaurants in Bangalore?

4. User Sentiment:

- Is there a correlation between user ratings and the sentiment expressed in user reviews?

- Can sentiment analysis reveal common positive and negative aspects mentioned in user reviews?

5. Delivery and Takeout Services:

- What percentage of restaurants in Bangalore offer food delivery or takeout services?

- Do restaurants that provide delivery services tend to have higher ratings?

6. Popular Dishes:

- Are there any correlations between a restaurant's menu items and its overall rating?

7. Operating Hours:

- How do operating hours affect a restaurant's popularity and user ratings?

8. Restaurant Features:

- Which additional features are most common among well-rated restaurants?

- Do specific features contribute to higher user ratings?