# Zomato-Restaurant-Rating-Prediction

In this project we have performed exploratory data analysis on given dataset And created a model that can predict the rating of the restaurant.

**Main Objective:**

The main agenda of this project is:

* Perform extensive **Exploratory Data Analysis(EDA)** on the Zomato Dataset.
* Build an appropriate **Machine Learning Model** that will help various Zomato Restaurants to predict their respective Ratings based on certain features.

## Feature description :

1. **url**contains the url of the restaurant in the zomato website
2. **address** contains the address of the restaurant in Bengaluru
3. **name** contains the name of the restaurant
4. **online\_order** whether online ordering is available in the restaurant or not
5. **book\_table** table book option available or not
6. **rate** contains the overall rating of the restaurant out of 5
7. **votes** contains total number of rating for the restaurant as of the above mentioned date
8. **phone** contains the phone number of the restaurant
9. **location** contains the neighborhood in which the restaurant is located
10. **rest\_type** restaurant type
11. **dish\_liked** dishes people liked in the restaurant
12. **cuisines** food styles, separated by comma
13. **approx\_cost**(for two people) contains the approximate cost of meal for two people
14. **reviews\_list** list of tuples containing reviews for the restaurant, each tuple
15. **menu\_item** contains list of menus available in the restaurant
16. **listed\_in**(type) type of meal
17. **listed\_in**(**city**) contains the neighborhood in which the restaurant is listed

## **Conclusion:**

* For the modeling part, tried using **LinearRegression**, **DecisionTree Regressor**, **RandomForest Regressor** , **Supprotvector Regressor** & **ExtraTree Regressor**. From all these models **ExtraTree Regressor** perform well compared to the other models.