A recommendation system for food stalls aimed at students (based on location of schools/ colleges and eateries in Mumbai, India)

**Brief Introduction**

*Part 1: Description of problem*

Mumbai, India is an extremely densely populated city (one of the most dense), with more than 18 million residents. Obviously, it is tough to start a business here due to high real estate costs. So, an entrepreneur aiming at a student centric market (13 - 20 year old demographic) should know the best places to set up shop. A large population of Mumbai lies in this student demographic (more than 50 schools), and eating snack foods out is more popular and convenient than ever, hence we will find the best places in Mumbai to set up a food shop/ restaurant Target audience: Entrepreneurs and small-scale businessmen/women interested in the food/ snacks industry, aiming at the student demographic

*Part 2: Analysing the Data*

### We need a list of the most populated schools in Mumbai. Their latitude and longitude will be calculated using geopy

1. **Data Link**: <https://en.wikipedia.org/wiki/List_of_educational_institutions_in_Mumbai>

### Use the FourSquare API to find the number of eateries in a 1.5 km radius around each school. The API will provide us with

### Postal Code

### Neighborhood

### Venue details

### Venue Summary

### Venue Category

1. Foursquare is a local search-and-discovery service mobile app which provides search results for its users (Wikipedia). It has more than 60 million users

### FourSquare API can also be used to find all food related categories that we will filter

### Processing the Retrieved data and creating a structured DataFrame for all the venues, grouped by schools

### Selecting relevant venues (food related only)

### The schools with least number of eateries around them would be the best places to start a food stall/ restaurant (supply and demand)

### Clustering the eateries to find the colleges with least competition around them