

# Exploring venues in Chandigarh, India using Foursquare and Zomato API

# Introduction

- ▶ Whenever a person searches for a venue in a new city, they're highly interested in the best places that the city has to offer.
- ▶ Combining the location of the venues in the city with their price and rating information would surely help visitors in a city make better informed decisions about the places they should visit.
- ▶ To explore this information, this project involves the juxtaposition of both the Foursquare API and the Zomato API to fetch complete information of various venues

# Data

- ▶ Using the Foursquare's explore API (which gives venues recommendations), I fetched venues up to a range of 4 kilometers from the center of Chandigarh and collected their names, categories and locations (latitude and longitude).
- ▶ Using the name, latitude and longitude values, I used the Zomato search API to fetch venues from its database. This API allows to find venues based on search criteria (usually the name), latitude and longitude values and more.
- ▶ Given that the data from the two APIs did not align completely, I had to use data cleaning to combine the two datasets properly.

# Methodology and Exploratory Data Analysis

- ▶ Categories: I begin my analysis by taking a look at the various categories of venues that exist in Chandigarh.
- ▶ Rating: Next, I'll explore the ratings of various venues in Chandigarh.
- ▶ Price: Next, I explore the average prices of all venues for one person using a scatter plot along with the count of venues with that average price per person.
- ▶ Clustering: Finally, I cluster all the venues based on their price range, location and more to identify similar venues and the relationship amongst them.

# Results and Discussion

- ▶ We identified that from the total set of venues, majority of them were Cafes and Indian Restaurants.
- ▶ While the ratings range from 1 to 5, majority venues have ratings close to 4.
- ▶ When we take a look at the price values of each venue, we explore that many venues have prices which are in the range of Rs 200 to Rs 400 for one person.

- 
- ▶ If you're looking for cheap places with relatively high rating, you should check Sector 35.
  - ▶ If you're looking for the best places, with the highest rating but might also carry a high price tag, you should visit Sector 7 and Sector 26.
  - ▶ . If you're looking to explore the city and have no specific criteria to decide upon the places you want to visit, you should try Elante Mall.

# Conclusion

- ▶ The purpose of this project was to explore the places that a person visiting Chandigarh could explore.
- ▶ The venues have been identified using Foursquare and Zomato API and have been plotted on the map.
- ▶ The map reveals that there are three major areas a person can visit: Sector 35, Sector 7 & 26 and Elante Mall.