



# **Coursera Capstone**

## IBM Applied Data Science Capstone

❖ Opening a New Restaurant in India, Hyderabad

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# Introduction:

A Restaurant is a food preparing and food delivering unit.in that we enjoy such a variety of dishes. Most of Restaurant for relaxing and enjoying variety of dishes. The importance of Restaurant is mainly for people to get out of the house for a while and enjoying party's a lot with friends or visiting with a family to the restaurants also make more entertainment. Usually families visit to the Restaurants after completing their shopping they can relax by eating and enjoying restaurant dishes.

# Business Problem

- Location of the shopping mall is one of the most important decisions that will determine whether the mall will be a success or a failure
  - Objective: To analyze and select the best locations in the city of Hyderabad, India to open a new shopping mall
  - This project is timely as the city is currently suffering from oversupply of shopping malls
  - Business question
    - In the city of Hyderabad, India, if a property developer is looking to open a new shopping mall, where would you recommend that they open it?

# Data

## • Data required

- List of neighbourhoods in Hyderabad
- Latitude and longitude coordinates of the neighbourhoods
- Venue data, particularly data related to Restaurants

## • Sources of data

- Wikipedia page for neighbourhoods

[https://en.wikipedia.org/wiki/Category:Neighbourhoods in Hyderabad, India](https://en.wikipedia.org/wiki/Category:Neighbourhoods_in_Hyderabad,_India)

- Geocoder package for latitude and longitude coordinates
- Foursquare API for venue data

# Observation:

From the above clusters we can clearly understand that Hyderabad has most numbers of Restaurants but most of Restaurants are centrally located .If we want to open a new Restaurant ,the best place is in cluster 1 or 2, as in cluster 3 we can see there are more number of Restaurants ,whereas in cluster 1 and cluster 2 very less . so cluster 1 and 2 is the best place to open a new Restaurant

The image features a dark blue gradient background. In the corners, there are decorative white line art elements resembling circuit boards or neural network connections, with lines and small circles. The text "Thank you!" is centered in a bold, italicized, white sans-serif font.

***Thank you!***