



# COURSERA DATA SCIENCE CAPSTONE

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*Singapore*

# IBM APPLIED DATA SCIENCE CAPSTONE

## Introduction:

Singapore has some of the best infrastructure facilities in South East Asia. Making it one of the most attractive places for people to set up businesses or start a company. Individuals who are interested in living here are also motivated by the various job opportunities available here.

However, it is almost impossible to ensure that a city is saturated with world-class infrastructure facilities. In this project, I will analyse Singapore infrastructure and try to draw meaningful conclusions from it.

# BUSINESS PROBLEM

1. List and visualise all major areas of Singapore with top existing infrastructure
2. What are the best areas in Singapore as per infrastructure
3. Which areas have the potential for the development of infrastructure of various kinds
4. Which areas lack infrastructure facilities
5. Where is the best place to stay within Singapore for all vital infrastructure facilities

# TARGET AUDIENCE

This project can help people who are interested in setting up businesses find the best area to build new infrastructure facilities that they specialise in.

It can also help firms that are able to build different infrastructure facilities but are only interested in a specific area.

Individuals who are interested in moving to Singapore can find areas that are saturated with infrastructure facilities and choose to find housing in those areas.

# DATA DESCRIPTION

For this project we need the following data:

- Data containing postal codes of various areas in Singapore, along with their latitude and longitude.
  - Data source: [data.gov.sg](https://data.gov.sg)
  - Description: With the postal codes of areas in Singapore, we can convert it into GPS Coordinates.
- Data on the different types of infrastructure in the different areas of Singapore.
  - Data source: Foursquare API
  - Description: With the API we can get information on the venues in the area.