



# **DATA SCIENCE ON BANGALORE CITY**

THE BATTLE OF NEIGHBOURHOODS – A REPORT

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## TABLE OF CONTENTS

INTRODUCTION .....	3
City Overview Map .....	3
DATA COLLECTION .....	4
City's Neighborhood data .....	4
City's Neighborhood Co-ordinates .....	4
City's current Venue details .....	4

# INTRODUCTION

The city of Bengaluru (Bangalore) is India's own Silicon Valley. It is one of the fastest growing cities in the world, with a population of more than 8M as of 2011. The total area of the city ~2200 sq. Km with population still increasing phenomenally. Out of 8M, nearly 5M are Male and 3M are female population. By one estimate, the population Growth has been 47.18% when compared with the population senses taken by the year 2001.

This makes the city vibrant, and most attractive market in India for any business person/ entrepreneur to put his best foot to expand & grow his business.

But, the most important question haunts the Investor, “where and what business should be best bet”?

Well, this report exactly does that.

This Report tries to capture the significant Neighborhoods in the Metropolitan city, analysis the already present infrastructure/ venues and describes the best location for an entrepreneur to determine a spot to kick start his business.

## City Overview Map



# DATA COLLECTION

For this analysis, below said data is required:

- City's Neighborhood and their population
- City's Co-ordinates
- City's current infrastructure (i.e) Venues

## City's Neighborhood data

The City's Neighborhood data was obtained from India's free to use datacenter website - <https://data.gov.in/>.

The dataset consists of Bangalore's Zone and ward wise – Area and its population – details.

City Name	Zone Name	Ward Name	Area (in sq km)	Total_Population_in_k
Bengaluru	Dasarahalli	Bagalakunte	4.3	65113
Bengaluru	Dasarahalli	Bagalakunte	5.7	57062
Bengaluru	Dasarahalli	Bagalakunte	1.9	47004
Bengaluru	Dasarahalli	Chokkasandra	3.8	59289
Bengaluru	Dasarahalli	Chokkasandra	1.0	24181
Bengaluru	Dasarahalli	Chokkasandra	1.5	33521
Bengaluru	Dasarahalli	Mallasandra	1.3	41482
Bengaluru	Dasarahalli	Mallasandra	2.1	35228
Bengaluru	Dasarahalli	Mallasandra	1.6	34299
Bengaluru	Dasarahalli	Peenya Industrial Area	5.5	57814
Bengaluru	Dasarahalli	Peenya Industrial Area	1.1	33866

## City's Neighborhood Co-ordinates

The City's Neighborhood Co-ordinates were obtained using Python Software library – Geocode. The co-ordinates can be obtained just by providing inputs, such as the ward Name or Zone Name to the Geocode.

## City's current Venue details

The venue details are obtained using [Foursquare API](#).

Using each Neighborhood's population detail and its already existing venues, we can understand existing infra.

This enables us to view the opportunities available and predict what Type/Category of venue is best to open as new one.