Final Assignment – Population in Tamil Nadu

Introduction / Business Problem

This project is divided into 3 phases

* Identifying the city with the highest population
* Create a model to predict the population in this particular city
* Use Foursquare location data to search for a few places in this city

This project is majorly aimed at building a model to predict the population of a particular city based on parameters such as:

* Birth Rate
* Death Rate
* Migration into Chennai

These parameters are most vital when determining the population of a particular place. This project will be helpful in approximating the census of a particular place. Census takes places every 10 years in India. The next census is due to take place next year(in the year 2021).

**Target Audience**

The government and the people involved in determining the census will benefit from this project.

Data

* Population of different districts in Tamil Nadu according to the latest census.

Using this data we plot a bar graph and find out the district having maximum population. We find out that the Chennai district has the highest population.

Example : This data consists of population in different districts of Tamil Nadu such as Ariyalur, Kancheepuram, Thiruvallur, Chennai, etc.

* Latitude and Longitude of Tamil Nadu(used for mapping)

Using this data, we visualise the map of Tamil Nadu and see how the different districts of Tamil Nadu are spread out.

Example : Latitude and Longitude of Tamil Nadu are 10.9094344 and 78.3665347

* Population in the Chennai district for the past Century(1911-2011)

This is the main data that will be used to build a model in order to predict the population of Chennai.

Example: Population recorded in each census that is in 1911,1921,1931,…………….,2011 is available in this dataset.

* Birth Rates, Death Rates and Migration-in data for Chennai from 1911-2011

These are the parameters that will be used to predict the population of Chennai.

Example: Birth Rate, Death Rate and Migration Data recorded in each census that is in 1911,1921,1931,…………….,2011 is available in this dataset.

* Foursquare location data to search for places in Chennai.

We find out the names, categories and location data of 30 places in Chennai.

Example: Details of a particular place in Chennai

Name: Chennai Fort Railway Station

Category: Train Station

Latitude: 13.083362

Longitude: 80.283049