# Comparing Neighborhoods of Bengaluru and Delhi

## Introduction

Bengaluru and Delhi are two of the leading IT hubs of India and is among the fastest growing metropolises of the country. Delhi is the fifth most populous city in the world and the largest city in India area-wise. Delhi has an estimated 2016 population of 18.6 million. Bangalore has an estimated population of 12.34 million in its urban area in 2017, up from 8.5 million in 2011 [1]. Both the cities welcome a wide range of residents, from students to families planning to settle down. There are over 65 neighborhoods in the Bengaluru metropolitan area and over 175 in Delhi. This project aims to compare these neighborhoods by grouping them using K-Means clustering algorithm based on the services available within a certain distance around the neighborhood. This will especially be a guide to people moving from Bengaluru to Delhi or vice-versa as they can choose a neighborhood with similar services they are used to.

## Data Acquisition

List of neighborhoods in Delhi and Bengaluru are available region wise in Wikipedia. Gecoder function can be used to obtain the location coordinates. The explore function of Foursquare API can be applied to obtain the services available around the neighborhood along with their coordinates.