**To upgrade or not to Third Wave Coffee**

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1. Introduction
   1. Background

The third wave coffee movement is a movement led by both consumers and manufacturers to consume, enjoy, and appreciate high-quality coffee. This movement considers coffee an artisanal food, like wine, whose consumption experience can be enhanced with greater education, connoisseurship, and sensory exploration beyond just a cup of coffee. While all coffee comes through a similar value stream, third wave coffee seeks to highlight the unique characteristics that result from the diversity of coffee bean cultivars, growing and cultivation methods, processing methods, roasting methods, and the variables in beverage preparation.

* 1. Problem

There are many coffee shops in Bengaluru and most of them haven’t embraced the third wave of coffee. As the third wave of coffee is gathering steam all around the world and new ventures in Bengaluru starting to offer it, which coffee shops should or shouldn’t upgrade to offer third wave coffee?

1. Data Acquisition
   1. Data Source
      1. Areas in Bengaluru

All the areas in Bengaluru, along with their postal code can be scraped from the web using BeautifulSoup python library.

* + 1. Coordinates of those areas

Using geocoder package, coordinates of these areas can be obtained which will then be used to get the coffee shops around them using Foursquare API.

* + 1. Details of the Coffee Shops

Further information of these coffee shops can be obtained by calling them using their venue IDs in Foursquare API. Since, information about these venues isn’t as up-to-date as in Zomato. [Dataset](https://www.kaggle.com/himanshupoddar/zomato-bangalore-restaurants) of Bengaluru restaurants in Zomato can be found in Kaggle and will be part of this project.

* + 1. Training Dataset

To train our model, third wave and non-third wave coffee shops along with their details will be scraped from the web. Details will contain features like ratings, customers and places around the shop.