

# Capstone Project – Battle of the Neighborhoods (Week 1)

## Business problem:

to determine where might be the 'best' neighborhood in Perth to start a tourist's food journey to satisfy their gastronomical needs.

## Introduction:

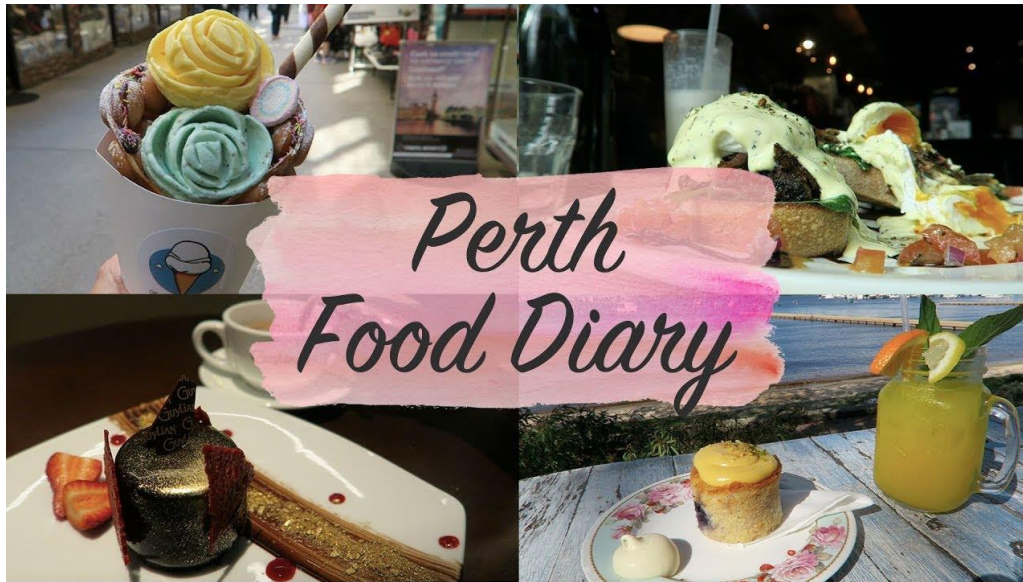
Perth, capital of Western Australia, sits where the Swan River meets the southwest coast. Sandy beaches line its suburbs, and the huge, riverside Kings Park and Botanic Garden on Mount Eliza offer sweeping views of the city. In Perth, you can embrace the best of both worlds, where soft-sand beaches and scenic parks meet a thriving metropolis of small bars, creative restaurants and curated street art.

The objective of this project is to use Foursquare location data and regional clustering of venue information to determine what might be the 'best' neighborhood in Perth to start your food. Through this project, we will find the most suitable location for a foodie to satisfy his gastronomical needs.



## Target audience:

This project is aimed towards foodies who want to explore Perth. By using concepts in data science, we will help them use this information to make informed decision where to start their food journey so they can optimize their visit in the capital city of Western Australia.



#### **Data requirements:**

The data required will be a combination of CSV files from [https://www.matthewproctor.com/full\\_australian\\_postcodes\\_wa](https://www.matthewproctor.com/full_australian_postcodes_wa) which will provide the list of 'localities' including its geographical coordinates. In addition, we will also use the Foursquare data to find where restaurants are located within a certain neighborhood.