

# A Cool Treat in a Warm Paradise

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## 1 | Introduction

### 1 | 1 Background

Barbados; a tropical nation at the edge of the Eastern Caribbean. Though small in size (with an area of approximately 166 square miles), it makes up for its small size with its big waves of heat. Despite its heat, thousands of tourists visit Barbados for its tropical climate, white sandy beaches & scrumptious delicacies annually.

With this in mind, an aspiring entrepreneur has decided to open a shop to sell ice cream to tourists and locals alike with unique Barbadian flavours like tamarind, Mount Gay Rum, Mauby, etc.

### 1 | 2 Problem

An aspiring entrepreneur is interested in opening an ice cream shop in the small island nation of Barbados. This project aims to determine the best parish to open an ice cream shop based on population density and nearby competition.

## 2 | Data Acquisition & Cleaning

### 2 | 1 Data Sources

The main source of data comes from the [Parishes of Barbados](#) Wikipedia page. The table containing the information of the 11 parishes of Barbados was scraped and analyzed. We chose this particular table mainly for its **Parish (short name)**, **Population (Census 2010)** and **Density km<sup>-2</sup>** columns.

**Parish (short name)** - This column contains the names of the eleven parishes of Barbados. These names will also work in tandem with the Foursquare location data.

**Population (Census 2010)** - This column contains the population of Barbados per parish from the year 2010.

**Density km<sup>-2</sup>** - This column represents population density per parish.