

Capstone Project - The Battle of Neighborhoods (Week 1)

LEVEL OF ACCIDENTALITY IN BOGOTA COLOMBIA
IN THE YEAR 2019

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1. INTRODUCTION

Traffic accidents today represent one of the biggest public health problems worldwide. Leaving not alone, losses of loved ones and damages emotional, but also very high economic costs for medical treatments and surgical, material damage. Therefore, the need arises to know what the causes are that originate traffic accidents and the factors that intervene in the development of themselves. In order to be able to generate preventive and corrective measures that decrease the probabilities of its occurrence.

In Bogota in 2019 there were around 34,998 accidents, some slight but others fatal, for which it is necessary to try to establish the multiple causes that can generate an accident. One of the main causes is the consumption of alcoholic beverages, so this work will be based on establishing whether in the neighborhoods of the city of Bogota where most accidents occur is because there are several places where alcoholic beverages can be consumed.

2. DATA

In the city of Bogota, the information on accidents that occurred from 2011 to 2019 is sought. For this study, only data from 2019 will be used. After this, the latitudes and longitudes of each of the neighborhoods will be obtained for thus to be able to classify them better.

In addition, we will use the Foursquare API to obtain the data of the place of each of the neighborhoods of Bogotá.

Foursquare has one of the largest databases of 105+ million places and more than 125,000 developers use this application. Foursquare API provides many

categories of place data, for this study we are interested in knowing the establishments where alcoholic beverages are sold.