

Data Description:

The dataset for this project will be built from the following sources:

1. City of Johannesburg Municipality Wikipedia Page:
https://en.wikipedia.org/wiki/City_of_Johannesburg_Metropolitan_Municipality)
2. Crime Stats SA: <https://www.crimestatssa.com/index.php>
3. Foursquare location data: <https://foursquare.com>

City of Johannesburg Municipality Wikipedia Page:

This page contains list of suburbs that are under the City of Johannesburg Municipality as well as the links to individual Wikipedia pages for each suburb, which then has coordinates the suburb. The City of Johannesburg Municipality is divided into 7 regions (Region A – Region G) and each suburb belongs to a particular region.

For Example below is the screenshot of the Alexandra suburb Wikipedia page:

Alexandra, Gauteng

From Wikipedia, the free encyclopedia

Coordinates: 26°6′23″S 28°5′77″E﻿ / ﻿

This article is about the township in South Africa. For the city in Egypt, see Alexandria.

Alexandra, informally abbreviated to **Alex**,^[2] is a **township** in the **Gauteng province** of South Africa. It forms part of the city of **Johannesburg** and is located near the upper-class suburb of **Sandton**. Alexandra is bounded by **Wynberg** on the west, **Mariboro** and **Kelvin** on the north, **Kew**, **Lombardy West** and **Lombardy East** on the south. It is commonly known as "Gomorraah" among local residents.^[3] Alexandra is one of the poorest urban areas in the country^[4]. Alexandra is situated on the banks of the **Jukskei River**. In addition to its original, reasonably well-built houses, it also has a large number (estimated at more than 20,000) of **informal dwellings** or "shacks".

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The name of the suburb will be used to identify the suburb and the coordinates will be used in the Foursquare API and also for visualizing the results of the project on a map of Johannesburg.

Crime Stats SA:

Crime stats is a website that displays the latest and historic South African crime statistics in an easy-to-understand format. The website has crime data for areas all over South Africa. Total crime data is a sum of 39 different crime categories for each suburb.

For example below is the screenshot, from the Crime Stats SA website, showing crime data for Sandton, Johannesburg.

Precinct	Murder	Sexual Offences	Attempted murder	Assault with the intent to inflict grievous bodily harm	Common assault	Common robbery	Robbery with aggravating circumstances	Arson	Malicious damage to property
	2018	2018	2018	2018	2018	2018	2018	2018	2018
Sandton	15	59	11	107	395	206	826	0	154
Total	15	59	11	107	395	206	826	0	154

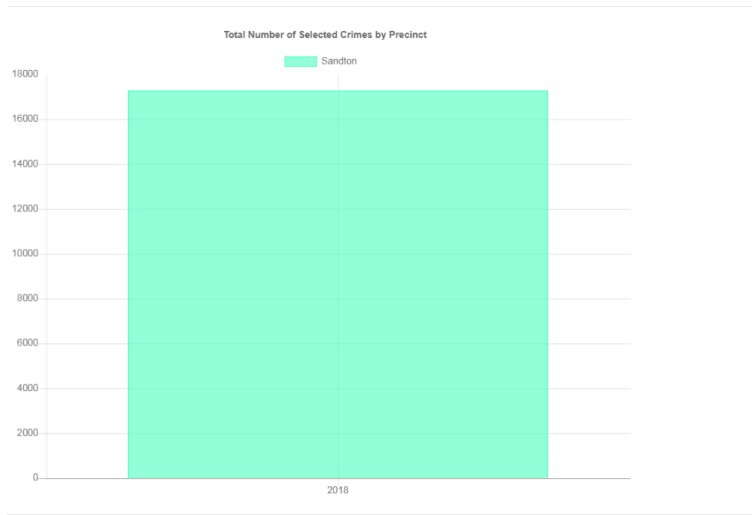


Figure 1 Total Crime Sandton in 2018.

The crime data will be used to determine the crime rate per suburb.

Foursquare Location Data:

Foursquare is a technology company that built a massive dataset of accurate location data.

Foursquare location data will be used to find number of available schools and healthcare facilities within a determined radius for each suburb. For schools we will be concentrating on primary schools, elementary schools, high schools and colleges, but for healthcare facilities the project will consider all healthcare establishments within a suburb.