

Evaluating Vulnerable Areas of New York City: Introduction

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1 Introduction

New York City is both the most populated, and most densely populated city in the world, with more than 8.3 million inhabitants. It is also one of the most expensive places to live in the world, particularly the Manhattan borough, and between these two factors it has a significant population of vulnerable people - whether that is economically, or to crime, or various other reasons. These populations tend to be clustered into neighbourhoods where the problem is prominent among the people there, and our goal will be to identify these vulnerable areas, and those at risk of becoming one. Our analysis will be on reported crime data from the year 2019.

In this project, we will attempt to uncover the areas of NYC most vulnerable in terms of crime, and the locations most affected by it using Foursquare location data and the City of New York's own `cityofnewyork` open data project (<https://data.cityofnewyork.us>). The results may be of interest to local government, who allocate funding towards reducing the impact and level of crime, or the NYPD, who allocate funding and personnel based on crime statistics. It may also be relevant to anyone thinking of opening a business in NYC, by showing them potentially hazardous areas of the city to set up shop in, and locating those that are less risky.