

Coursera Capstone Project – A new Hospital

Introduction:

In light of COVID-19 the most recent and devastating pandemic across the globe, New York has seen record numbers of hospital patients, and due to this has had to bring in a temporary hospital in Central Park and a Hospital ship into the harbour.

Therefore, for future pandemics more hospitals could be built in preparation and this project will look at where these could be built.

Business Problem:

The objective of this project is to select the optimum location in New York to open a new hospital. Therefore, the question is for the government, using data science and clustering techniques, where would we recommend they build a new hospital?

Target Audience:

The audience of this project is not only the government, to help advise where a new hospital should be located, but also the citizens of who would benefit from a new hospital in their neighbourhoods.

Data:

Required data:

- List of neighbourhoods in New York.
- Latitude and longitude of these neighbourhoods.
- Data of current hospital locations.

Data Sources:

-https://geo.nyu.edu/catalog/nyu_2451_34572 for New York neighbourhoods data.

- FourSquare API for hospital data