**A LOCATION SEARCH FOR A NEW BOOKSHOOP TO BE LOCATED WITHIN THE NEIGBORHOOD OF EXISTING UNIVERISTIES IN MANHANTTAN BOROUGH, NEW YORK, UNITED STATES OF AMERICA (USA). A PROPOSAL TO THE ASSOCIATED PRESS UNION USA**

**BY**

**TOCHUKWU CALEB OKEKE**

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**Data**

**Location information and student population**

Location information was obtained from foursquare, student population form online source, and information on population and income of Manhanttan Borough from the Kaggle. Foursquare has a large data information about location and places of interest, and this information were assessed using foursquare API. Student population information were obtained from the different school websites. Kaggle is a subsidiary of google LLC, and online community of data scientist and store of data on different things.

**New York University:** The New York University student population is 51, 123, and the campuses of New York university are located in two boroughs namely Manhattan and Brookyln.

**City University of New York :** City University New York, USA, is the largest urban university system in the United States of America, comprising of 25 campuses located in the 5 boroughs of New York state. The university enrolls over 275, 000 students and offers different varieties of courses.

**Columbia University:** This is the oldest institution in New York state and is one of the colonial colleges founded pre-independence, and has a student population is 33,143.

**Existing bookshop information**

A search query to get location and rating information about existing bookshop that may act as competitors. This required using the location coordinate of the different universities in the venue search on foursquare API. This gave location information of existing bookshops at a specified radius to the universities. This information was obtained in a Jason file

**Neighborhood information**

To explore areas around the different universities to know the business actives that thrive. The three universities are located in Manhanttan Borough USA and therefore neighborhood information was sort for this purpose. Manhanttan borough neighborhood information was obtained from foursquare and explored to business that thrive around this universities. Based on these neighborhood, clusters were created.

**Student Population information**

This was obtained through a search on the three universities websites. The three universities are located in the same neighborhood and have different department, colleges and campus. City university has 25 campuses, 11 of which are located in the Manhanttan borough. A total of 28 campuses was noted with city university having the majority population amongst the three.

**Population and income of Manhanttan Borough New York, USA**

Information for this purpose was obtained from Kaggle in an excel file. Basic descriptive statistic was done and related information were obtained.