



COURSERA CAPSTONE PROJECT

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coursera



Agenda

Introduction

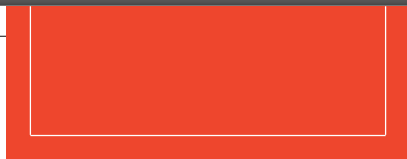
Data

Methodology

Results

Discussion

Conclusion



INTRODUCTION

Problem Description

- My young cousin will move to New York City to start studying at Manhattan college engineering ,we face a lot of problem in find suitable flat for rent special he doesn't eligible to stay at university housing. so that I try to find best flat for rent around undergrounds that can walking to the station.
- My cousin need the following conditions at new flat .
 - Apartment with min 1 bedroom and Max bedrooms
 - Rent not to exceed \$1500/month
 - Max 10 minutes to walking till underground metro station
 - Fully live place a lot of restaurants , gum, cafes, and more at night live to be save for living
- Our comparison will be with Stratford city at London last beautiful place was visit this year "MOXY LONDON STRATFORD"

Audience

- First Audience will be any person who plans to move to New York City or any other major cities.
- And the second one is Data Science training that needs a powerful case study to train his / her skill



DATA

The heart of our project

Data Sources and Processing

- Manhattan neighborhoods were obtained from Wikipedia and organized by Neighborhoods with geodata via Nominatim for mapping with Folium.
 - https://en.wikipedia.org/wiki/List_of_New_York_City_Subway_stations_in_Manhattan
- List of Subway stations was obtained via Wikipedia, NY Transit web site and Google map
 - <https://www.google.com/maps/search/manhattan+subway+metro+stations/@40.7837297,-74.1033043,11z/data=!3m1!4b1>
- List of apartments for rent was consolidated from web-scraping real estate sites for MH. The geolocation(lat,long) data was found with algorithm coding and using Nominatim.
 - <http://www.rentmanhattan.com/index.cfm?page=search&state=results>
- Folium map was the basis of mapping with various features to consolidate all data in ONE map where one can visualize all details needed to make a selection of apartment