

Introduction where you discuss the business problem and who would be interested in this project.

I live in the city of Abu Dhabi, United Arab Emirates. Where I live there are many amenities and restaurants within short distance of my residence. I want to study the city of Manhattan and find a good place in Manhattan with similar access to restaurants and amenities.

The problem to be solved is to find apartments in New York with access to plenty of amenities and restaurants.

Interested Audience is any person who plans to move to the city of New York

Data where you describe the data that will be used to solve the problem and the source of the data.

Data used to solve the problem:

- I used foursquare to get a list of amenities and restaurants around my current location.
- Manhattan, New York data/information:
  - o List/Information on neighbourhoods
  - o Geodata (Latitude and Longitude)
  - o subway stations
  - o Apartments information

Methodology section which represents the main component of the report where you discuss and describe any exploratory data analysis that you did, any inferential statistical testing that you performed, if any, and what machine learnings were used and why.

The methodology used is based on leveraging the Abu Dhabi data and Manhattan data in order to narrow down the selection and be able to choose a suitable apartment in Manhattan.

Methodology used:

- Explore Abu Dhabi data to find information about amenities and restaurants around my current residence.
- Use Foursquare to get information about amenities and restaurant in Abu Dhabi
- Display map of Abu Dhabi showing all amenities and restaurants
- Read Manhattan information from csv file
- Explore Manhattan cluster data
- Explore apartment data and places to rent
- Explore rent data and subway locations data
- Display map showing exploration results

Discussion section where you discuss any observations you noted and any recommendations you can make based on the results.

I have learned a lot of skills in this course specially the following topics:

- How to use FourSquare API
- How to use clustering
- How to use segmentation

Conclusion section where you conclude the report.

I am happy with material and content provided in this course. I feel the course and the final project has provided me with great skills which I can take back and apply in real situations.