CAPSTONE PROJECT

THE BATTLE OF NEIGHBORHOODS

INTRODUCTION

- New York City most populous state in United States.

- "Melting pot".

- Diverse culture & different cuisine.

PROBLEM STATEMENT

- Supply & demand of Indian cuisine.

- Market for new restaurants.

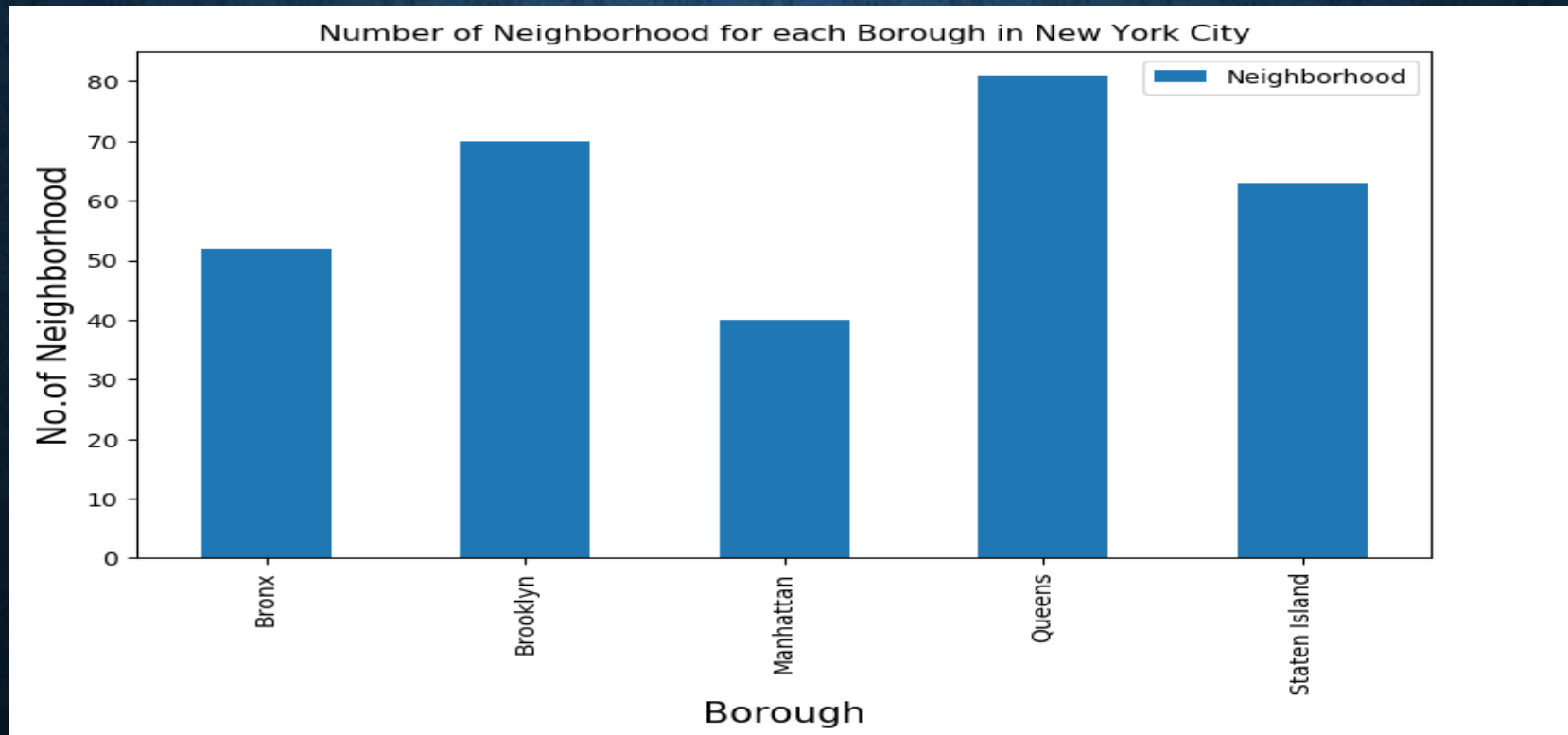- Places to stay if Indian cuisine preferred.

DATA

- NYC data that contains list of boroughs, neighborhoods along with their lat & long.

- Indian restaurants in NYC (FourSquare API).

- NYC Borough boundaries (GeoSpace Data).
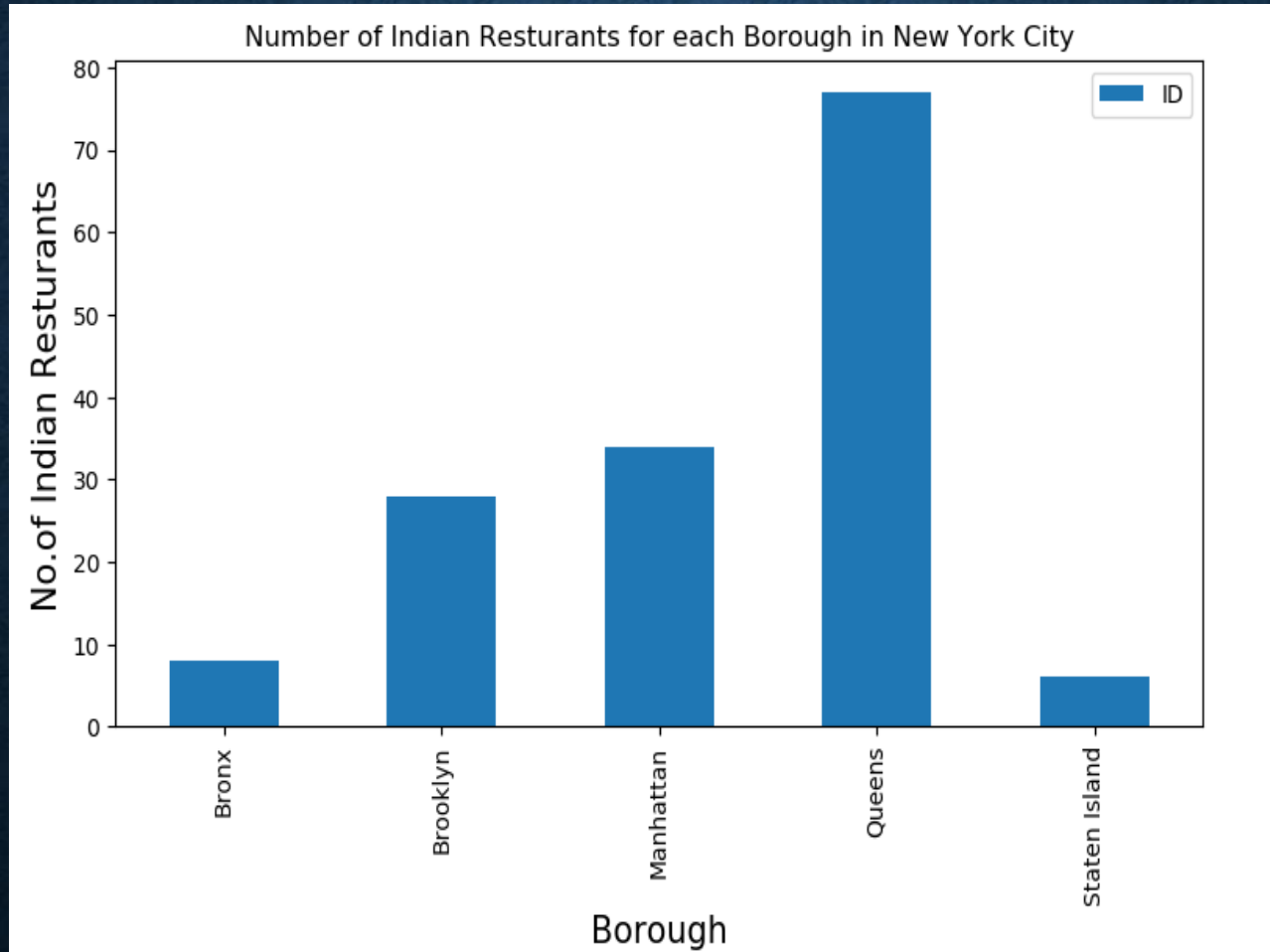
DATA CLEANING

- Find each neighborhood using FourSquare API.

- Get only Indian cuisine restaurants.

- Sort restaurants using ratings.
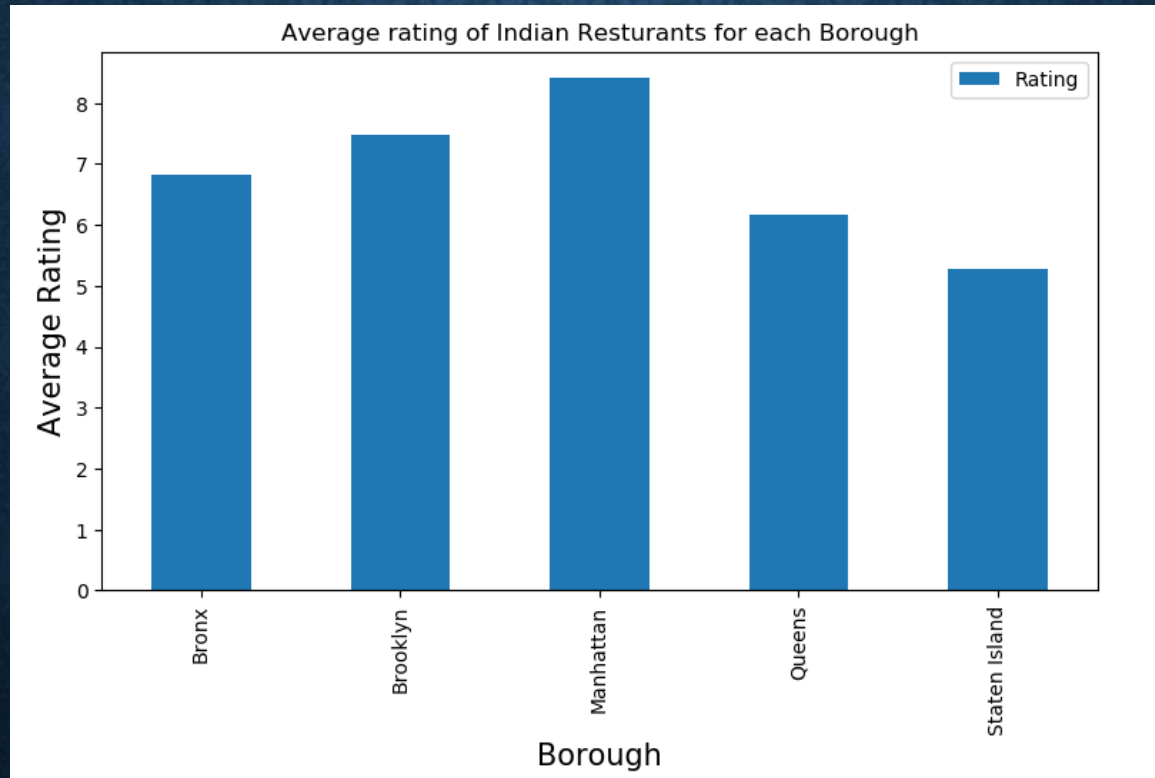
METHODOLOGY

Exploratory data analysis

INFERENTIAL STATISTICS

MODELLING

- One hot encoding on restaurants.

- Filter restaurants (K means clustering).

VISUALIZE

Average rating of Indian Resturants for each Borough

RESULTS

	Borough	Neighborhood	Latitude	Longitude	Average Rating
0	Queens	Astoria	40.768509	-73.915654	9.2
1	Queens	Blissville	40.737251	-73.932442	9.2
2	Manhattan	Civic Center	40.715229	-74.005415	9.2
3	Manhattan	Midtown	40.754691	-73.981669	9.0
4	Manhattan	Midtown South	40.748510	-73.988713	9.0
5	Queens	Sunnyside	40.740176	-73.926916	9.2
6	Staten Island	Sunnyside	40.612760	-74.097126	9.2
7	Queens	Sunnyside	40.740176	-73.926916	9.2
8	Staten Island	Sunnyside	40.612760	-74.097126	9.2
9	Queens	Sunnyside	40.740176	-73.926916	9.2
10	Staten Island	Sunnyside	40.612760	-74.097126	9.2
11	Queens	Sunnyside	40.740176	-73.926916	9.2
12	Staten Island	Sunnyside	40.612760	-74.097126	9.2
13	Manhattan	Tribeca	40.721522	-74.010683	9.2

CONCLUSION

- Best restaurants: Astoria (Queens), Blissville (Queens), Civic Centre (Manhattan).

- Potential market: Manhattan.

- Best stay: Manhattan.

THANK YOU