

Data Science Conference in New York

Introduction

The Hut Group is a company based in New York, USA is organizing event for 2 days for a group of Data Scientists from all over the world. The company has to put a good program, including a hotel of residence, a hall for meetings, places of landscape to visit, stores for shopping, restaurants, carparks and cafes. So the company's purpose is to make a list of places of landscape in New York, including the nearest restaurants, cafes, and shopping stores for each place.

Data Description

The data used in this project is provided by Foursquare location data. The data are grouped by landscape area, and each area included the information about this area and all information about restaurants, cafes, and stores which in this area.

Project Flow

1. Import Libraries
2. Define Foursquare Credentials
3. Define the city and get its latitude & longitude
4. Search for Hotels & clean dataframe
5. Search for Park & clean dataframe
6. Search for Restaurants & clean dataframe
7. Search for Shopping Stores & clean dataframe
8. Generate map to visualize hotels, shopping stores, Parking and Restaurant and how they cluster together

Hotel Search

	name	categories	address	lat	lng	postalCode	state
0	The Beekman – A Thompson Hotel	Hotel	123 Nassau St	40.711173	-74.006702	10038	NY
1	The Roxy Hotel	Hotel	2 Avenue of the Americas	40.719341	-74.005044	10013	NY
2	Four Seasons Hotel New York Downtown	Hotel	27 Barclay St	40.712612	-74.009380	10007	NY
3	Smyth Hotel	Hotel	85 W Broadway	40.715144	-74.009183	10007	NY
4	Walker Hotel Tribeca	Hotel	396 Broadway	40.718481	-74.002469	10013	NY

Park Search

	name	categories	address	lat	lng	neighborhood	postalCode	state
0	City Hall Park	Park	17 Park Row	40.712415	-74.006724	NaN	10038	NY
1	Union Square Park	Park	btwn Broadway & Union Sq E	40.735170	-73.990667	NaN	10003	NY
2	Battery Park	Park	Battery Pl	40.703217	-74.015795	NaN	10004	NY
3	Brooklyn Bridge Park	Park	Main St	40.702282	-73.996456	DUMBO, Brooklyn, NY	11201	NY
4	Central Park	Park	59th St to 110th St	40.784083	-73.964853	NaN	10028	NY

Restaurant Search

	name	categories	address	lat	lng	postalCode	state
0	Jing Fong Restaurant 金豐大酒樓	Dim Sum Restaurant	20 Elizabeth St	40.715881	-73.997209	10013	NY
1	Golden Unicorn Restaurant 麒麟金閣	Dim Sum Restaurant	18 E Broadway	40.713629	-73.997230	10002	NY
2	O'Hara's Restaurant & Pub	Pub	120 Cedar St	40.709894	-74.012836	10006	NY
3	Mudville Restaurant & Tap House	Wings Joint	126 Chambers St	40.715336	-74.008881	10007	NY
4	Bo Ky Restaurant 波記潮州小食	Chinese Restaurant	80 Bayard St	40.715696	-73.998667	10013	NY

Shopping Store Search

	name	categories	address	lat	lng	postalCode	state
0	Lux Accessories @ Shop Small Pop-Up Mall	Jewelry Store	NaN	40.712781	-74.005944	10282	NY
1	Westfield World Trade Center	Shopping Mall	185 Greenwich St	40.711602	-74.011368	10007	NY
2	East Broadway Mall	Shopping Mall	88 E Broadway	40.713915	-73.994290	10002	NY
3	South Street Seaport Mall	Shopping Mall	19 Fulton St	40.706959	-74.003798	10038	NY
4	Vosges Haut Chocolat @ Shop Small Pop-Up Mall	Gourmet Shop	NaN	40.712937	-74.013031	10282	NY

Visualisation



