Spaces for Artists in New Delhi

Problem Statement

The spoken word community has seen a recent boom in the Indian subcontinent. Performance poetry, orr slam poetry, or spoken word as it is commonly referred to, has found its place in most metropolitan areas, such as Mumbai, Bangalore, Kolkata, Hyderabad, etc. However, the rise of independent spoken word artists in the capital of the country, New Delhi, is still hinged upon a few key factors. Here, quality dominates over quantity, and the small, highly overpopulated capital is home to boundless talent. The spaces that artists need to grow, spaces that are clean, safe, accessible, and most importantly, a positive atmosphere, are of the essence.

In one of the busiest cities in the world, where can artists find the space to grow and become better? This includes places for poetry showcases, for recitals, for practice, so on and so forth. Ideal spots include bookstores, cafes, theatres and parks. How does one find such nooks in the bustling streets of New Delhi?

Data Acquisition

The data used in this project comes from two sources, firstly the wikipedia page for Neighborhoods in Delhi,

https://en.wikipedia.org/wiki/Category:Neighbourhoods_in_Delhi, and secondly the Foursquare API data collected from this neighborhood data.

For data acquisition, initially, we perform web scraping to get the data from the wikipedia page. After that, having successfully set up our Foursquare data, we use the longitude and latitude to explore the exact spots we are looking for. Using Foursquare API, we create dataframes of Bookstores, Cafes, Theatres and Parks.

4	Famous book store	Bookstore	25	28.627615
5	Lakshmi Book Store	Bookstore	18 Janpath Bhawan	28.629590

categories

Bookstore

Bookstore

name

Oxford Bookstore

Full Circle Bookstore

0

THE BOOKSTORE DATAFRAME

81 Block N, Outer Circle, Connaught Place

1st & 2nd Flr., 23, Middle Lane, Khan Market

address

lat

77.222229

77.227198

77.219743

77.218506

28.631343

28.600200

postalCode

110001

110003

110001

110001

	name	categories	address	lat	Ing
4	Cafe Coffee Day	Café	Outer Circle Connaught Place	28.631340	77.221726
5	Cafe	Café	СМҮК	28.586478	77.226498
6	Cafe Coffee Day	Café	Pallavi AWWA Complex, Chanakyapuri	28.595247	77.171954
8	Cafe Coffee Day	Café	Connaught Place	28.633841	77.217909
11	Café Nirvana	Café	Main Bazar Rd.	28.641334	77.214683
12	1 Cafe Lounge	Café	Outer Circle, Connaught Place	28.633142	77.222518
21	Triveni Terrace Cafe	Café	Triveni Kala Sangam	28.627295	77.232677
22	Cafe Coffee Day	Café	Delhi Airport Metro Express	28.617903	77.188474
23	The Pool Cafe @ The Lodhi Hotel	Café	The Lodhi Hotel	28.591559	77.238278
24	Cafe Delhi Heights	Café	68/1, Janpath, Atul Grove Road, Janpath, Conna	28.627842	77.219860
26	Cafe, Hyatt Regency	Café	Bhikaji Cama Place, Ring Rd	28.569524	77.185403
27	Cafe Coffee Day	Café	Shankar Road	28.638417	77.180235

THE CAFE DATAFRAME

		College Theater	ONO ONIVERSITY	28.548194	77.100010
12	Oddbird Theatre	Indie Theater	Dhan Mill Compound, 100 Foot Road, SSN Marg, P	28.506228	77.183645
13 The A	tre Yoga Studio	Yoga Studio	252-A, Nanak Bhavan	28.548267	77.211383

Indie Movie Theater

categories

Theater

Theater

Theater

Theater

Music Venue

name

Akshara Theatre । अक्षरा थिएटर

The hoshruba Theatre Company

ARIA Music & Theatre Conservatory

little theatre group

asmita theatre

Open Air Theatre

0

3

4

6

THE THEATRES DATAFRAME

address

11-B, Baba Kharak Singh Marg 28.625665 77.203379

COPERNICUS MARG 28 621804 77 231612

Nav shakti school 28.632810 77.241051

209 A Peacock Lane 28.547016 77.213792

lat

Taurus 28.598426 77.141919

C-52 A 28.646652 77.122512

Ing

6	Triangle Park	Park	Pandara Road	28.6046
7	Gulmohar Park Road	Park	177 Adhar Shila	28.5592
10	Deer Park	Park	Safdarjung Enclave	28.5581
11	Panchsheel Park पंचशील पार्क	Park	Josip Broz Tito Marg	28.5537
16	Thyagraj <mark>Park</mark>	Park	Thyagraj Park	28.5782
18	Central Park	Park	Connaught Place	28.6326
28	Pandara Park	Park	Pandara Park	28.6067

name

Pandara Rd Local Park

Nehru Park | नेहरू पार्क (Nehru Park)

2

categories

Park

Park

address

Chanakyapuri

lat

Pandara Park 28.603520 77.231580

28.591798

Ing

77.192860

77.228823

77.213404

77.193814

77.228652

77.214983

77.219299

77.233019

THE PARK DATAFRAME

Data Cleaning

As for data cleaning, every time we get the data for Bookstores, Cafes, Theatres and Parks, we clean the created dataset to get rid of repeated values, blank values, and values that do not bring any significant input to our dataset, such as pincode or state. Cleaning the datasets in this manner ensures that we have only the most accurate and reliable data.

7	177 Adhar Shila	Park	28.559251	77.213404	Gulmohar Park Road
10	Safdarjung Enclave	Park	28.558191	77.193814	Deer Park
11	Josip Broz Tito Marg	Park	28.553746	77.228652	Panchsheel Park । पंचशील पार्क
16	Thyagraj Park	Park	28.578247	77.214983	Thyagraj Park
18	Connaught Place	Park	28.632614	77.219299	Central Park
28	Pandara Park	Park	28.606781	77.233019	Pandara Park
0	81 Block N, Outer Circle, Connaught Place	Bookstore	28.631343	77.222229	Oxford Bookstore
1	1st & 2nd Flr., 23, Middle Lane, Khan Market	Bookstore	28.600200	77.227198	Full Circle Bookstore
4	25	Bookstore	28.627615	77.219743	Famous book store
5	18 Janpath Bhawan	Bookstore	28.629590	77.218506	Lakshmi Book Store
4	Outer Circle Connaught Place	Café	28.631340	77.221726	Cafe Coffee Day
5	CMYK	Café	28.586478	77.226498	Cafe

address

Pandara Park

Chanakyapuri

Pandara Road

2

3

6

THE FINAL DATAFRAME

categories

lat

Park 28.603520 77.231580

Park 28.604606 77.228823

Ing

Park 28.591798 77.192860 Nehru Park | नेहरू पार्क (Nehru Park)

name

Triangle Park

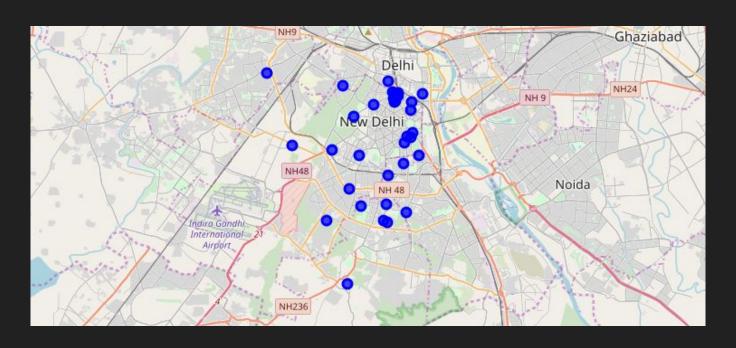
Pandara Rd Local Park

Methodology

Having acquired and cleaned the data as given above, we compile all of it together by concatenation into one dataframe. This dataframe becomes the basis of our map, which we build using folium. The benefit of cleaning the previous individual dataframes is that this concatenated dataframe is highly concentrated and effective in nature.

Results

We get our result in the form of a clustered map that easily pinpoints the spots in the city of New Delhi which are accessible, safe and accommodating for the growth of artists in the city.



THE FINAL RESULT