

# Spaces for Artists in New Delhi

# Problem Statement

The spoken word community has seen a recent boom in the Indian subcontinent. Performance poetry, or 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](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.

# 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.

	address	categories	lat	lng	name
2	Pandara Park	Park	28.603520	77.231580	Pandara Rd Local Park
3	Chanakyapuri	Park	28.591798	77.192860	Nehru Park   नेहरू पार्क (Nehru Park)
6	Pandara Road	Park	28.604606	77.228823	Triangle Park
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

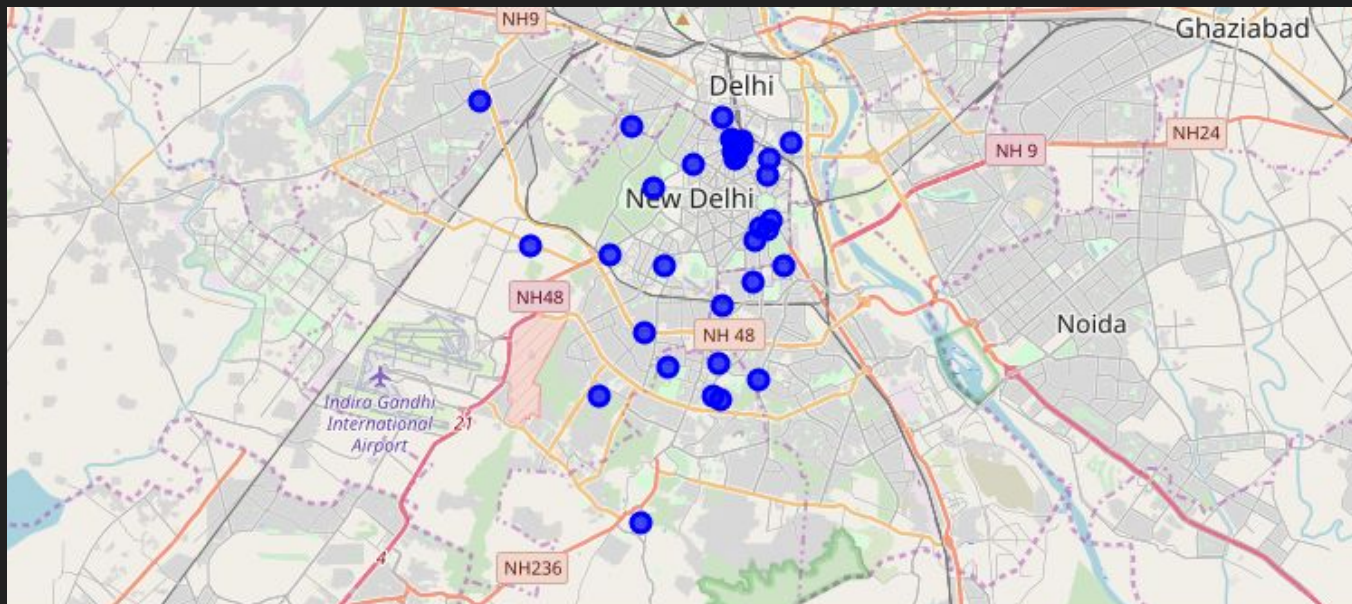
THE FINAL DATAFRAME

# 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