The Battle of Neighborhoods - Know your Classmates Near You

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1 Introduction

1.1 Background

After passing from University long time ago in Covid19 period again we all classmates meet in Virtual world .Everyone wanted to know about each other where about. Its almost seven months of lockdown everyone also remembering there old days of college.

1.2 Problem

As whole Batch which is of sixty person out of which fourth are in group. All of them wanted to know whereabout of everyone else. Which generated lot of Data. Also anyone new will again start asking same question . So I decided to create a Visual Graph from which in few second whole story can be communicated.

1.3 Interest

Obviously, It will interest my classmate and college mates staying worldwide. It will also help any person going to new city he can get old friend very easily.

2 Data acquisition and cleaning

2.1 Data sources

I used data which I received from my classmates. I asked them to send longitude and latitude of there city or just message me their location .

Name	latitude	longitude
Ritesh Kumar	23.667	86.933
Sunita	37.773972	122.431297
Visal	37.54129	-77.434769
Amit Arya	29.749907	-95.358421
Sarvesh Singh	32.715736	-117.161087
Priya Singh	38.624691	-90.184776
Preeti Seth	29.854263	77.888
Sudhanshu Singh	26.85	80.949997
Mohit Singh	12.972442	77.580643
Amit Yadav	28.535517	77.391029
Vimalesh Yadav	26.85	80.949997
Santosh Kumar	28.457523	77.026344
Ankit Raj	28.535517	77.391029
Saurabh Panday	28.538336	-81.379234
Amit Kumar	31.683	76.117
Gautam Singh	25.432571	81.851311
Akash Panday	28.457523	77.026344
Gaurav Panday	42.033363	-87.8834
Neeraj Singh	18.530823	73.847466
Ashwani Yadav	12.972442	77.580643
Sanjay Paan	12.972442	77.580643
Rajesh Paswan	25.612677	85.158875
Sunit Bombay	28.457523	77.026344
Sunil Lohani	26.85	80.949997
Pyush	28.535517	77.391029
Himani Jha	28.457523	77.026344
Anuj Bhatt	28.457523	77.026344
Rohit Yadav	28.6448	77.216721

Alok Panday	23.02579	72.58727
Suresh Kumar	20.462521	85.882988
Ashok Seth	25.286106	51.534817
Divya Jha	40.866959	-74.417374
Manish Singh	28.36678	79.43167
Ram Swarup	21.17024	72.831062
Avinash Pandey	25.612677	85.158875
Kunwar Raj	23.02579	72.58727
Suresh Prasad	Not Abailable	Not Abailable
Siddharth Guru	21.17024	72.831062
Sandeep Bharti	Not Abailable	Not Abailable
Vishwjeet Jha	Not Abailable	Not Abailable
Shweta Singh	Not Abailable	Not Abailable
Rajesh Sahu	Not Abailable	Not Abailable
Ashwani Jha	Not Abailable	Not Abailable
Amit Pandey	29.7559698	-95.3573194
Yogender Raj	28.6263	77.2185

2.2 Data cleaning

As the data number of very less and manually entered by me I corrected some entries manually .Some some friends I searched Data from their social media profile and their old mails to me .

2.3 Feature selection

After data cleaning, there were 38 samples and 3 features in the data.

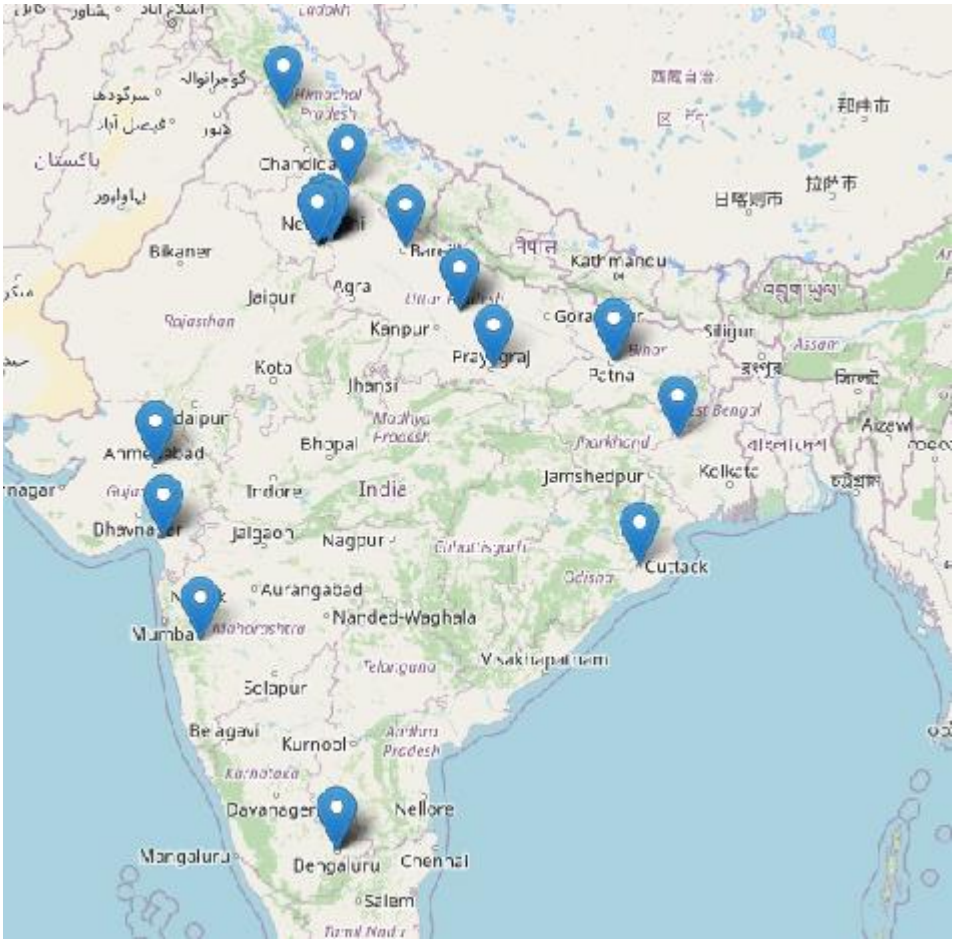
Longitude is defined as the "geographical angular distance east or west on the earth's surface" or, for the directionally-challenged, left to right. To clarify: the lines of longitude run from pole to pole but measure left to right.

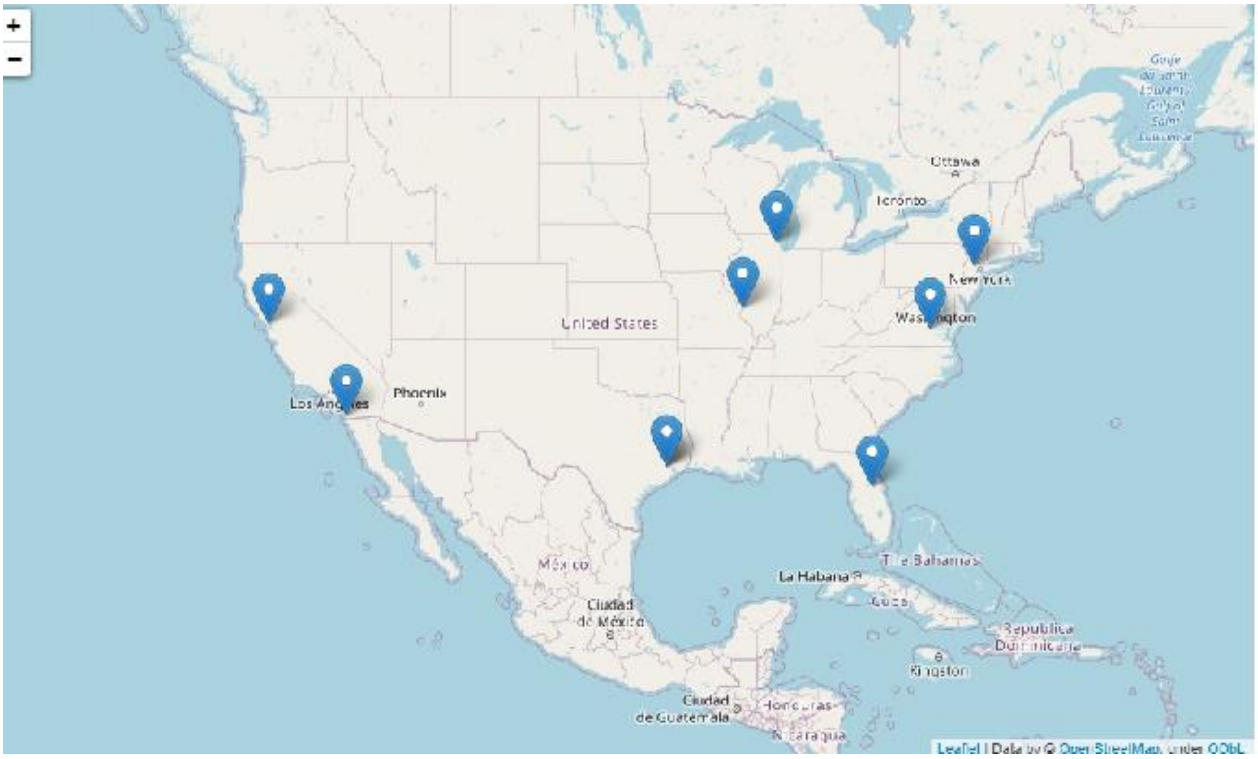
Latitude is defined as the exact opposite: "the angular distance north or south from the equator of a point on the earth's surface." Lines of latitude run horizontally to measure north to south.

3 Exploratory Data Analysis

Result using Folium Library

Graph of India




Ottawa
Toronto
United States
Phoenix
La Habana
Ciudad de México
Kingston
Ciudad de Guatemala
Honduras
Nicaragua

Graph of USA

Worldwide Graph

4 Conclusions

In this study, I analyzed the most of my classmates stay in National Capital Region(NCR) in India. After Covid lockdown My classmates near NCR region can call for a get-together. At same time only one stay in Middle east Asia can visit India and join the get-together.

Total ten people stay in USA . But none of them stay near to anyone . So for them a get-together even after Covid lockdown is possible.

5 Future directions

I did this project just for my classmates. There is lot of scope in this. In my College there are more then 5000 ex-student. If I will make same type of project. In any city worldwide my college mate will get someone from our college.