

**Ravirajsinh Dabhi**

**Subject:** Applied Data Science Capstone  
(Data section)

**Title:** Analysis on Covid-19 in India



I scrap the Wikipedia web page with help of BeautifulSoup python library and convert it in pandas dataframe. Finding particular table require some trial and error. Some code in below image.

```
[4]: res = requests.get("https://en.wikipedia.org/wiki/2020_coronavirus_pandemic_in_India")
      soup = BeautifulSoup(res.content, 'lxml')
```

```
[5]: table = soup.find_all('table')[4]
      df= pd.read_html(str(table))
```

```
[6]: day_to_day = pd.DataFrame(df[0]).T
      day_to_day.head()
```

[6]:

		0	1	2	3	4	5	6	7	8	9	...	56	57	58	59	60	61	62		
	Date (2020)	Date (2020)	Jan-30	Feb-02	Feb-03	Mar-02	Mar-03	Mar-04	Mar-05	Mar-06	Mar-07	Mar-08	...	Apr-24	Apr-25	Apr-26	Apr-27	Apr-28	Apr-29	Total	De
State/Union Territory	Andaman and Nicobar Islands		NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	...	4	5	6	NaN	NaN	NaN	33	
	Andhra Pradesh		NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	...	60(2)	106(2)	36	80	82	73	1332	
	Arunachal Pradesh		NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	...	NaN	NaN	NaN	NaN	NaN	NaN	1	
	Assam		NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	...	1	NaN	NaN	NaN	2	NaN	38	

5 rows × 66 columns

This raw data table has lot's of missing values. If there is no cases or death record for particular day that have null value. I have to convert it into zero(0). And most of data is 'object' Datatype and most of is 'string'. From string data type we can't do exploratory analysis of data.

Some of the data is in weird format like below image. Which I have to convert in appropriate format.

56(2)	82(3)	60(2)	106(2)	36	80	82	1259	31
0	0	0	0	0	0	0	1	–
0	0	1	0	0	0	2	38	1
12[d]	22	28	52	23	26	69	346	2
1	0	0	1	2	0	10	40	–
0	0	0	0	1	0	0	37	–
75	92(1)	128(2)	138(3)	111(1)	293	190	3108	54
0	0	0	0	0	0	0	7	–
206(18)	135(8)	217(9)	191(15)	256(6)	230(18)	247(11)	3548	162

There are many operation which you will find out in notebook. After this visualization of data I am using foursquare API to find top highest rated hospitals in state in which corona cases is highest.

I found out that Maharashtra state has highest cases in india and particular Mumbai city. So I use foursquare to find highest rated hospital in Mumbai.

I wil use folium and geopy python library to visualization and find location of particular address. You can see step by step explanation and code in Notebook.