Why is India a significant case study (in comparison to Iran & Indonesia)?

```
In [1]: # Import pandas, numPy, & dataset
    import pandas as pd
    import numpy as np
    path = r"C:\Users\berns\OneDrive\Desktop\2019Report.csv"
    df = pd.read_csv(path)
    df.head(10)
```

Out[1]:

news_link	Info_source	duration	end_date	start_date	ID	
https://qz.com/1247234/chad-has-blocked- social	News Media Article	472	7/13/2019	3/28/2018	1	0
https://almushahid.net/41057/	News Media Article	151	3/17/2019	10/17/2018	2	1
https://jordanopensource.org/technical-report/	News Media Article	21	1/10/2019	12/20/2018	3	2
https://www.reuters.com/article/us-sudan-prote	News Media Article	67	2/26/2019	12/21/2018	4	3
https://www.theguardian.com/world/2019/jan/01/	News Media Article	20	1/20/2019	12/31/2018	5	4
https://www.indiatoday.in/india/video/bhima-ko	News Media Article	1	1/2/2019	1/1/2019	6	5
https://www.newsx.com/national/pulwama- encount	News Media Article	NaN	NaN	1/2/2019	7	6
https://www.newsx.com/national/pulwama- encount	News media Article	NaN	NaN	1/3/2019	8	7
https://freepresskashmir.com/2019/01/05/search	News Media Article	NaN	NaN	1/5/2019	9	8
https://ooni.torproject.org/post/gabon-interne	CSO KIO Partners	1	1/8/2019	1/7/2019	10	9

10 rows × 43 columns

```
In [2]: df.info()
```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 213 entries, 0 to 212
Data columns (total 43 columns):

	columns (total 43 columns):	N N 11 6	Б.
#	Column	Non-Null Count	Dtype
0	ID	213 non-null	int64
1	start_date	213 non-null	object
2	end_date	145 non-null	object
3	duration	93 non-null	object
4	Info_source	213 non-null	object
5	news_link	212 non-null	object
6	continent	213 non-null	object
7	sub-region	0 non-null	float64
8	country	213 non-null	object
9	geo_scope	207 non-null	object
10	area_name	207 non-null	object
11	ordered_by	209 non-null	object
12	decision_maker	129 non-null	object
13	shutdown_type_new	213 non-null	object
14	affected_network	213 non-null	object
15	full or service-based	213 non-null	object
16	Facebook_affected	184 non-null	object
17	Twitter_affected	182 non-null	object
18	WhatsApp_affected	182 non-null	object
19	<pre>Instagram_affected</pre>	182 non-null	object
20	Telegram_affected	182 non-null	object
21	<pre>other_service_details (specify)</pre>	23 non-null	object
22	SMS_and_phone_call_affected	160 non-null	object
23	telcos_involved	62 non-null	object
24	gov_ack	206 non-null	object
25	official_just	213 non-null	object
26	other_just_details	79 non-null	object
27	off_statement	13 non-null	object
28	actual_cause	213 non-null	object
29	other_cause_details	90 non-null	object
30	election	208 non-null	object
31	violence	211 non-null	object
	hr_abuse_reported	209 non-null	object
33	users_notified	206 non-null	object
34	users_affected/targetted	160 non-null	object
35	legal_justif	204 non-null	object
36	legal_method	31 non-null	object
37	telco_resp	200 non-null	object
38	telco_ ack	14 non-null	object
39	econ_impact	0 non-null	float64
40	event	144 non-null	object
41	an_link	3 non-null	object
42 d±vn4	notes es: float64(2) int64(1) object(4	6 non-null	object

dtypes: float64(2), int64(1), object(40)

memory usage: 71.7+ KB

```
In [3]: df.describe()
```

Out[3]:

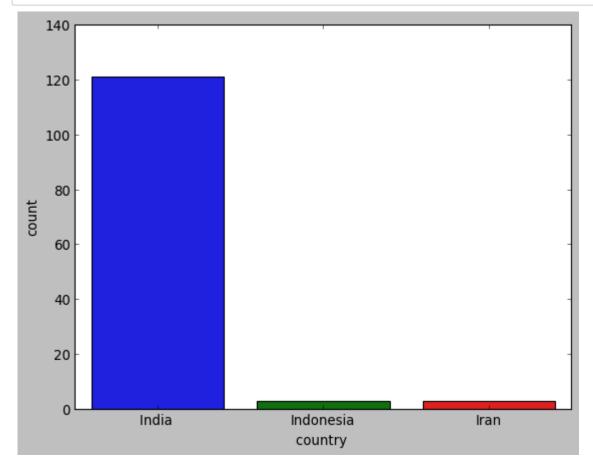
	ID	sub-region	econ_impact
count	213.000000	0.0	0.0
mean	107.000000	NaN	NaN
std	61.631972	NaN	NaN
min	1.000000	NaN	NaN
25%	54.000000	NaN	NaN
50%	107.000000	NaN	NaN
75%	160.000000	NaN	NaN
max	213.000000	NaN	NaN

In [4]: df.columns

```
In [5]: df['country '].value_counts()
Out[5]: India
                                               121
        Venezuela, Bolivarian Republic of
                                                12
                                                11
        Yemen
                                                 8
        Iraq
                                                 6
        Algeria
        Pakistan
                                                 5
                                                 4
        Ethiopia
                                                 3
        SriLanka
        Sudan
                                                 3
                                                 3
         Indonesia
                                                 3
         Bangladesh
                                                 3
         Iran
                                                 3
        Russia
                                                 3
        Kazakhstan
         Ecuador
                                                 2
                                                 2
        Syria
                                                 2
        Myanmar
                                                 2
        Tajikistan
                                                 2
         Turkey
                                                 2
        Benin
         Chad
                                                 1
         Liberia
                                                 1
        Gabon
                                                 1
        China
                                                 1
        Cameroon
                                                 1
        Malawi
                                                 1
         Eritrea
                                                 1
         Egypt
                                                 1
        DemocraticRepublicCongo
                                                 1
        Mauritania
                                                 1
        United Kingdom
                                                 1
         Jordan
                                                 1
        Zimbabwe
                                                 1
        Name: country , dtype: int64
In [6]:
        from matplotlib import pyplot as plt
         #make the plots show up inline
         %matplotlib inline
         import seaborn as sns
         # set style
         plt.style.use('_classic_test')
In [7]: | df['country '] = df['country '].astype(str)
         df['country '].unique()
Out[7]: array(['Chad', 'Yemen ', 'Jordan', 'Sudan', 'DemocraticRepublicCongo',
                'India ', 'Gabon', 'Zimbabwe ',
                'Venezuela, Bolivarian Republic of', 'Algeria', 'Russia',
                'Pakistan', 'SriLanka', 'Tajikistan', 'Benin', 'Kazakhstan',
                'Iraq ', 'United Kingdom', 'China', 'Indonesia', 'Malawi ',
                'Liberia', 'Ethiopia ', 'Syria ', 'Eritrea', 'Cameroon', 'Myanmar',
                'Mauritania', 'Iran', 'Bangladesh', 'Egypt ', 'Ecuador', 'Turkey'],
               dtype=object)
```

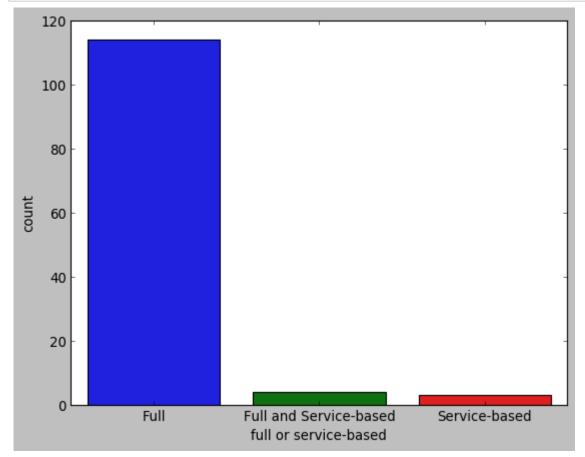
```
In [8]: df = df[df['country '].isin(['India ', 'Indonesia','Iran'])]
    df['country '].unique()
```

Out[8]: array(['India ', 'Indonesia', 'Iran'], dtype=object)

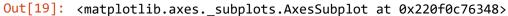


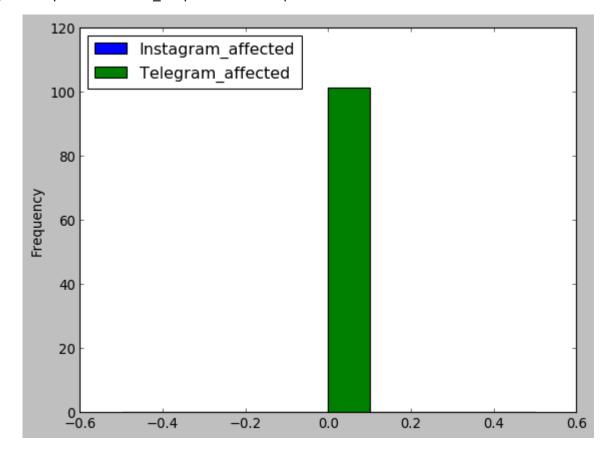
```
In [10]: df = df[df['country '].isin(['India '])]
    df['country '].unique()
```

Out[10]: array(['India '], dtype=object)



```
df['Instagram_affected'].value_counts()
In [16]:
Out[16]: 0.0
                101
         Name: Instagram_affected, dtype: int64
In [17]: | df['Telegram_affected'].value_counts()
Out[17]: 0.0
                101
         Name: Telegram_affected, dtype: int64
         df[['Facebook_affected', 'Twitter_affected', 'WhatsApp_affected', 'Instagram_a
In [19]:
         ffected', 'Telegram_affected']].plot(kind= 'hist')
```





```
In [23]: # Visualizing when spikes in shutdown occured
import datetime

df['end_date '] = pd.to_datetime(df['end_date '], format= "%m/%d/%Y")
sns.distplot(df['end_date '])
plt.show()
```

