

In [7]:

```
import pandas as pd
import pytrends
from pytrends.request import TrendReq
```

In [9]:

```
pytrends = TrendReq(hl='en-US', tz=360)
```

In [10]:

```
pytrends.build_payload(kw_list = ['machine learning' , 'data science',
                                  'python'])
```

In [11]:

```
data = pytrends.interest_by_region()
```

In [25]:

```
data.sort_values(by = ['machine learning' , 'data science',
                       'python'], ascending = False)
```

Out[25]:

	machine learning	data science	python
geoName			
Bangladesh	11	6	83
Pakistan	10	9	81
Malaysia	9	8	83
India	9	7	84
Indonesia	9	7	84
...
Western Sahara	0	0	0
Yemen	0	0	0
Zambia	0	0	0
Zimbabwe	0	0	0
Åland Islands	0	0	0

250 rows × 3 columns

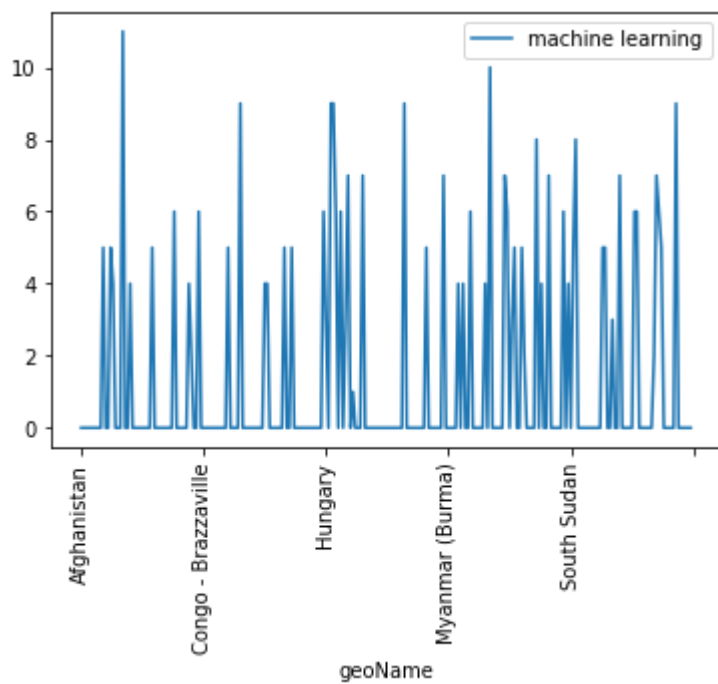
In [19]:

```
import seaborn as sns
import matplotlib.pyplot as plt
```

In [32]:

```
plt.figure(figsize=(20,10))
data.reset_index().plot(y = 'machine learning', x = 'geoName')
plt.xticks(rotation = 90)
plt.show()
```

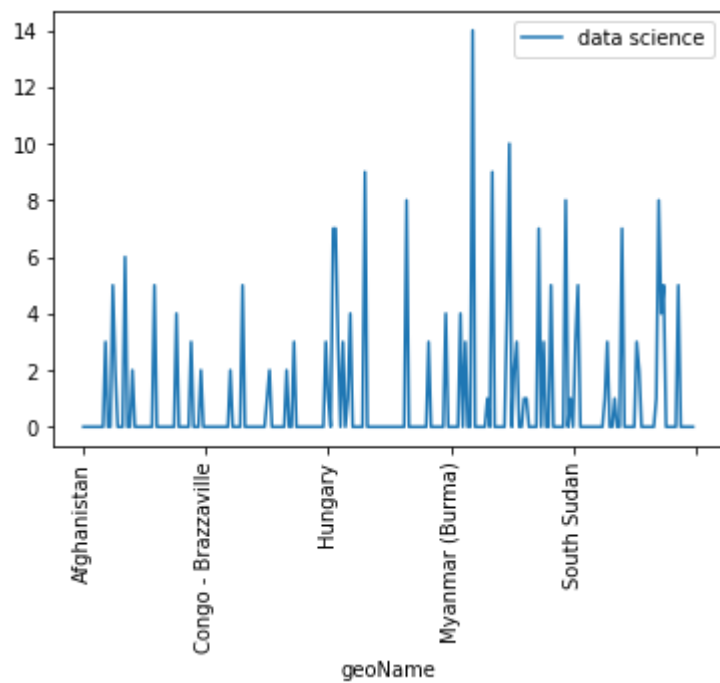
<Figure size 1440x720 with 0 Axes>



In [33]:

```
plt.figure(figsize=(20,10))  
data.reset_index().plot(y = 'data science', x = 'geoName')  
plt.xticks(rotation = 90)  
plt.show()
```

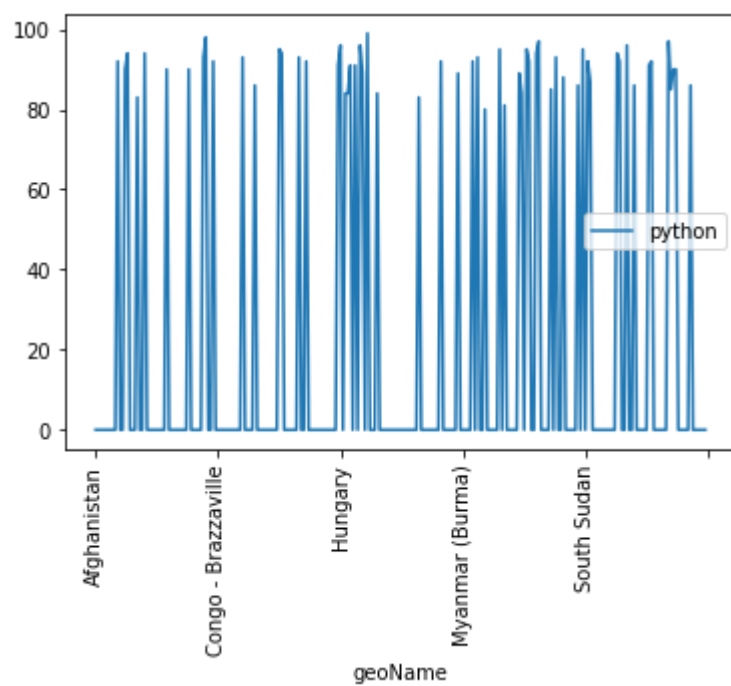
<Figure size 1440x720 with 0 Axes>



In [34]:

```
plt.figure(figsize=(20,10))
data.reset_index().plot(y = 'python', x = 'geoName')
plt.xticks(rotation = 90)
plt.show()
```

<Figure size 1440x720 with 0 Axes>



In [36]:

```
data_india = pytrends.trending_searches(pn = 'india')
```

In [37]:

```
data_india.head()
```

Out[37]:

	0
0	RCB vs CSK
1	Real Madrid vs Man City
2	LIC IPO
3	Moon Knight episode 6
4	Repo Rate

In [38]:



```
data_india.tail()
```

Out[38]:

	0
15	Shigella
16	Fed meeting
17	Roe vs Wade
18	Conway
19	What is Met Gala

In [41]:



```
top_data = pytrends.top_charts(2021, hl = 'en-us', tz = 300, geo = 'GLOBAL')
```

In [42]:



```
top_data.head()
```

Out[42]:

	title	exploreQuery
0	Australia vs India	
1	India vs England	
2	IPL	
3	NBA	
4	Euro 2021	

In [43]:



```
top_data.tail()
```

Out[43]:

	title	exploreQuery
5	Copa América	Copa America
6	India vs New Zealand	
7	T20 World Cup	
8	Squid Game	
9	DMX	

In [47]:



```
keywords = pytrends.suggestions(keyword = 'modi')  
df = pd.DataFrame(keywords)  
df.drop(columns = 'mid')
```

Out[47]:

	title	type
0	Narendra Modi	Prime Minister of India
1	SpiceJet	Airline
2	Brave	2012 film
3	Modi	Taiwanese entertainer
4	Grammatical modifier	Topic

In [48]:



```
pytrends.build_payload(kw_list = ['jobs'])
```

In [49]:



```
job_query = pytrends.related_queries()
```

In [50]:



job_query

Out[50]:

```
{'jobs': {'top':
0      jobs near me      100
1      job              85
2      indeed jobs      75
3      indeed           75
4      part time jobs    45
5      city jobs         37
6      jobs hiring       35
7      online jobs       33
8      government jobs    27
9      amazon jobs       26
10     jobs from home    23
11     best jobs         23
12     steve jobs        21
13     craigslist jobs   19
14     nhs jobs          19
15     google jobs       19
16     govt jobs         17
17     work from home jobs 17
18     it jobs           17
19     work from home    16
20     jobs near me hiring 15
21     hiring near me    15
22     facebook jobs     13
23     security jobs     13
24     usa jobs          13,
'rising':
0      amazon jobs near me 3200
1      work from home jobs near me 2050
2      admin or office jobs 1900
3      indeed jobs near me 1450
4      jobs bg vxod 1450
5      trac jobs 1150
6      warehouse jobs near me 1150
7      part time jobs near me 1100
8      driving jobs near me 1050
9      receptionist jobs near me 1050
10     jobs near me 1000
11     full time jobs near me 1000
12     retail jobs near me 950
13     office jobs near me 850
14     construction jobs near me 800
15     hiring near me 800
16     jobs near me hiring 800
17     cna jobs near me 750
18     remote jobs 600
19     upwork 500
20     amazon warehouse jobs 400
21     ziprecruiter 350
22     amazon jobs 250
23     amazon careers 200
24     fema jobs 200}}}
```

In [51]:



```
job_topic = pytrends.related_topics()
```



```
job_topic.values()
```

Out[53]:

dict_values([{'rising':		value formattedValue	
link	\		
0	190	+190%	/trends/explore?q=/m/04pymq&date=today+5-y
1	110	+110%	/trends/explore?q=/m/014xsg&date=today+5-y
2	80	+80%	/trends/explore?q=/m/04ctxd&date=today+5-y
3	70	+70%	/trends/explore?q=/m/05xxpw&date=today+5-y
4	60	+60%	/trends/explore?q=/m/0t53np8&date=today+5-y
5	60	+60%	/trends/explore?q=/m/018j6p&date=today+5-y
6	60	+60%	/trends/explore?q=/m/09ylwk&date=today+5-y
7	50	+50%	/trends/explore?q=/g/1q6jdznr&date=today+5-y
8	40	+40%	/trends/explore?q=/g/11h7hz8ms4&date=today+5-y
9	40	+40%	/trends/explore?q=/m/02nzw0&date=today+5-y
10	40	+40%	/trends/explore?q=/m/02w88k&date=today+5-y
11	40	+40%	/trends/explore?q=/m/02g0j0&date=today+5-y
topic_mid	topic_title	topic_type	
0	/m/04pymq	.jobs	Top-level domain
1	/m/014xsg	Remote work	Topic
2	/m/04ctxd	Commercial driver's license	Topic
3	/m/05xxpw	Full-time job	Topic
4	/m/0t53np8	Glassdoor	Website
5	/m/018j6p	Software Developer	Occupation
6	/m/09ylwk	Indeed	Website
7	/g/1q6jdznr	driver	Topic
8	/g/11h7hz8ms4	Registered nurse	Occupation
9	/m/02nzw0	Warehouse	Building use
10	/m/02w88k	Salary	Topic
11	/m/02g0j0	Freelancer	Topic
, 'top':			
value formattedValue	hasData	\	
0	100	100	True
1	6	6	True
2	4	4	True
3	4	4	True
4	4	4	True
5	3	3	True
6	3	3	True
7	2	2	True
8	2	2	True
9	2	2	True
10	2	2	True
11	2	2	True
12	1	1	True
13	1	1	True
14	1	1	True
15	1	1	True
16	1	1	True
17	1	1	True
18	1	1	True
19	0	<1	True
20	0	<1	True
21	0	<1	True
		link	topic_mid \
0		/trends/explore?q=/m/04115t2&date=today+5-y	/m/04115t2

```

1      /trends/explore?q=/m/09ylwk&date=today+5-y      /m/09ylwk
2      /trends/explore?q=/m/05xypj&date=today+5-y      /m/05xypj
3      /trends/explore?q=/m/03nw7w&date=today+5-y      /m/03nw7w
4      /trends/explore?q=/m/036nz&date=today+5-y      /m/036nz
5      /trends/explore?q=/m/03ml62y&date=today+5-y      /m/03ml62y
6      /trends/explore?q=/m/02w88k&date=today+5-y      /m/02w88k
7      /trends/explore?q=/m/014xsg&date=today+5-y      /m/014xsg
8      /trends/explore?q=/m/06y3r&date=today+5-y      /m/06y3r
9      /trends/explore?q=/m/02ky346&date=today+5-y      /m/02ky346
10     /trends/explore?q=/m/01fw9h&date=today+5-y      /m/01fw9h
11     /trends/explore?q=/m/01_942&date=today+5-y      /m/01_942
12     /trends/explore?q=/m/019v9k&date=today+5-y      /m/019v9k
13     /trends/explore?q=/g/11h7hz8ms4&date=today+5-y  /g/11h7hz8ms4
14     /trends/explore?q=/m/02nzw0&date=today+5-y      /m/02nzw0
15     /trends/explore?q=/m/04pymq&date=today+5-y      /m/04pymq
16     /trends/explore?q=/g/1q6jdznr&date=today+5-y    /g/1q6jdznr
17     /trends/explore?q=/m/018j6p&date=today+5-y      /m/018j6p
18     /trends/explore?q=/m/05xxpw&date=today+5-y      /m/05xxpw
19     /trends/explore?q=/m/02g0j0&date=today+5-y      /m/02g0j0
20     /trends/explore?q=/m/0t53np8&date=today+5-y     /m/0t53np8
21     /trends/explore?q=/m/04ctxd&date=today+5-y      /m/04ctxd

```

	topic_title	topic_type
0	Job	Topic
1	Indeed	Website
2	Part-time job	Topic
3	Recruitment	Topic
4	Government	Organization type
5	Career	Topic
6	Salary	Topic
7	Remote work	Topic
8	Steve Jobs	American entrepreneur
9	Engineering	Discipline
10	National Health Service	England
11	Wage	Topic
12	Bachelor's degree	Degree
13	Registered nurse	Occupation
14	Warehouse	Building use
15	.jobs	Top-level domain
16	driver	Topic
17	Software Developer	Occupation
18	Full-time job	Topic
19	Freelancer	Topic
20	Glassdoor	Website
21	Commercial driver's license	Topic }])