In [7]:

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

In [9]:

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

In [10]:

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

In [11]:

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

In [25]:

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

Out[25]:

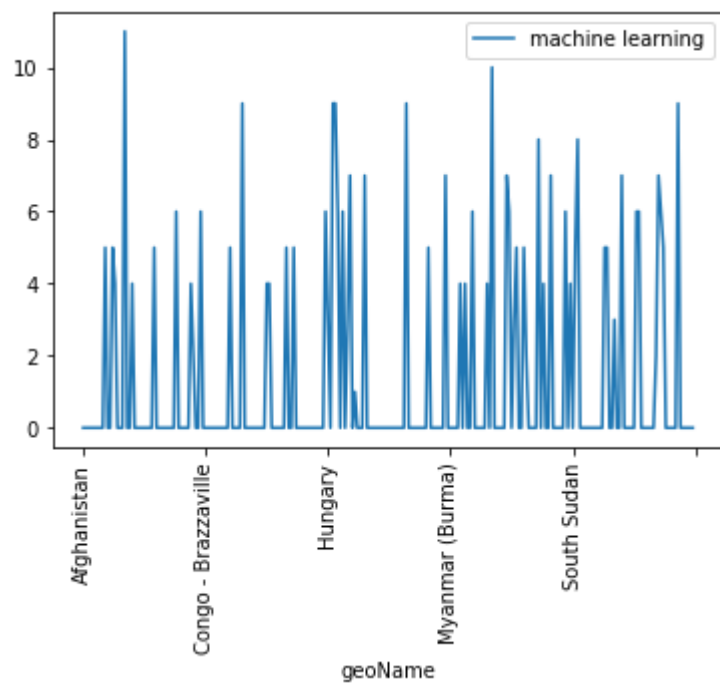|	machine learning	data science	python
geoName			
Bangladesh	11	6	83
Pakistan	10	9	81
Malaysia	9	8	83
India	9	7	84
Indonesia	9	7	84
...	...	...	...
Western Sahara	0	0	0
Yemen	0	0	0
Zambia	0	0	0
Zimbabwe	0	0	0
Åland Islands	0	0	0

250 rows × 3 columns

In [19]:

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

In [32]:

```python
plt.figure(figsize=(20,10))
data.reset_index().plot(y = 'machine learning', x = 'geoName')
plt.xticks(rotation = 90)
plt.show()
```
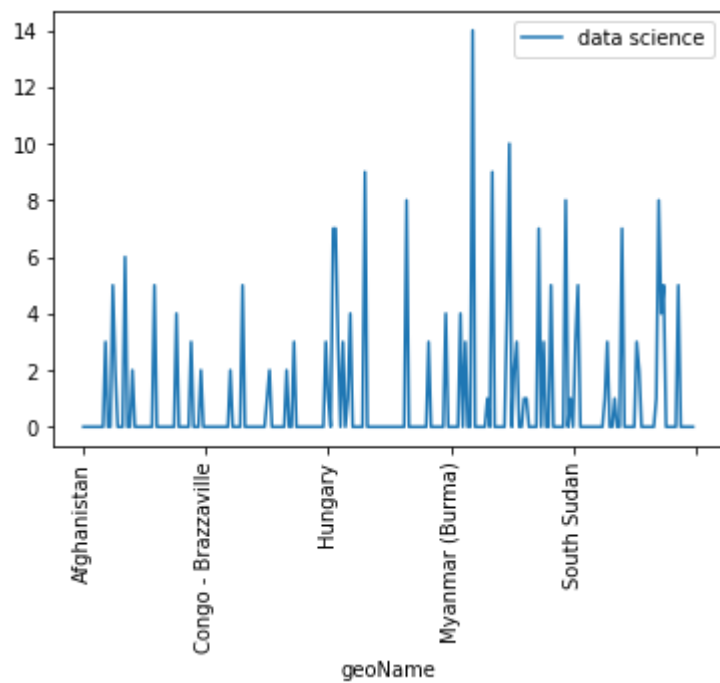
<Figure size 1440x720 with 0 Axes>

In [33]:

```python
plt.figure(figsize=(20,10))
data.reset_index().plot(y = 'data science', x = 'geoName')
plt.xticks(rotation = 90)
plt.show()
```
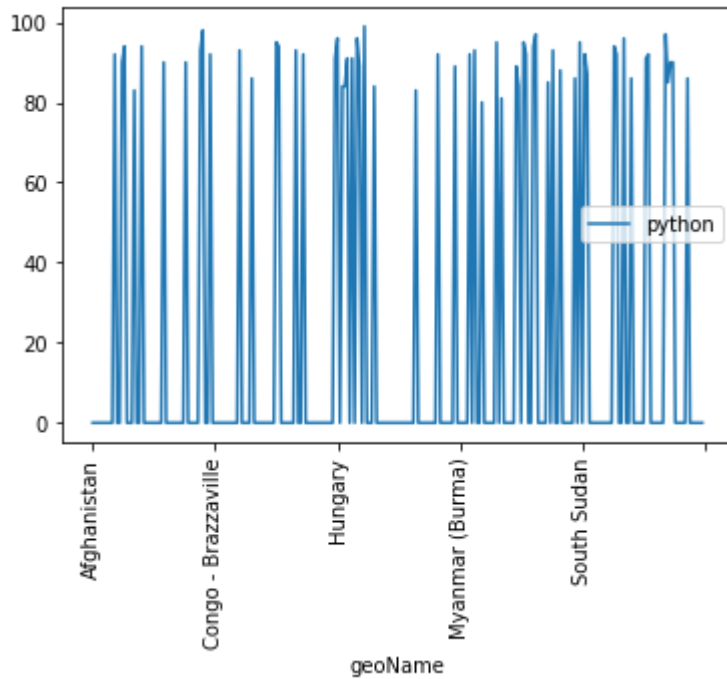
```
<Figure size 1440x720 with 0 Axes>
```

In [34]:

```python
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]:

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

In [37]:

```python
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]:

```python
data_india.tail()
```

Out[38]:

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

In [41]:

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

In [42]:

```python
top_data.head()
```

Out[42]:

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

In [43]:

```python
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]:

```python
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]:

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

In [49]:

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

In [50]:

```
job_query
```

Out[50]:

```
{'jobs': {'top':                      query  value
 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':                          query  value
 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 вход   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]:

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

In [53]:

```
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/1q6jdznrb&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/1q6jdznrb                      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/05xxpj&date=today+5-y        /m/05xxpj
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/1q6jdznrb&date=today+5-y    /g/1q6jdznrb
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  }])
```