

In [2]: *#Google Trends provides an API that can be used to analyze the daily searches on Google. This API is known as pytrends, you can easily install it in your systems by using*

```
In [1]: import pandas as pd
from pytrends.request import TrendReq
import matplotlib.pyplot as plt
trends = TrendReq()
```

In [ ]: *# so Let's create a DataFrame of the top 10 countries which search for "Machine Learning"*

```
In [7]: trends.build_payload(kw_list = ["Machine Learning"])
data = trends.interest_by_region()
data = data.sort_values(by = "Machine Learning" , ascending = False)
data = data.head(10)
print(data)

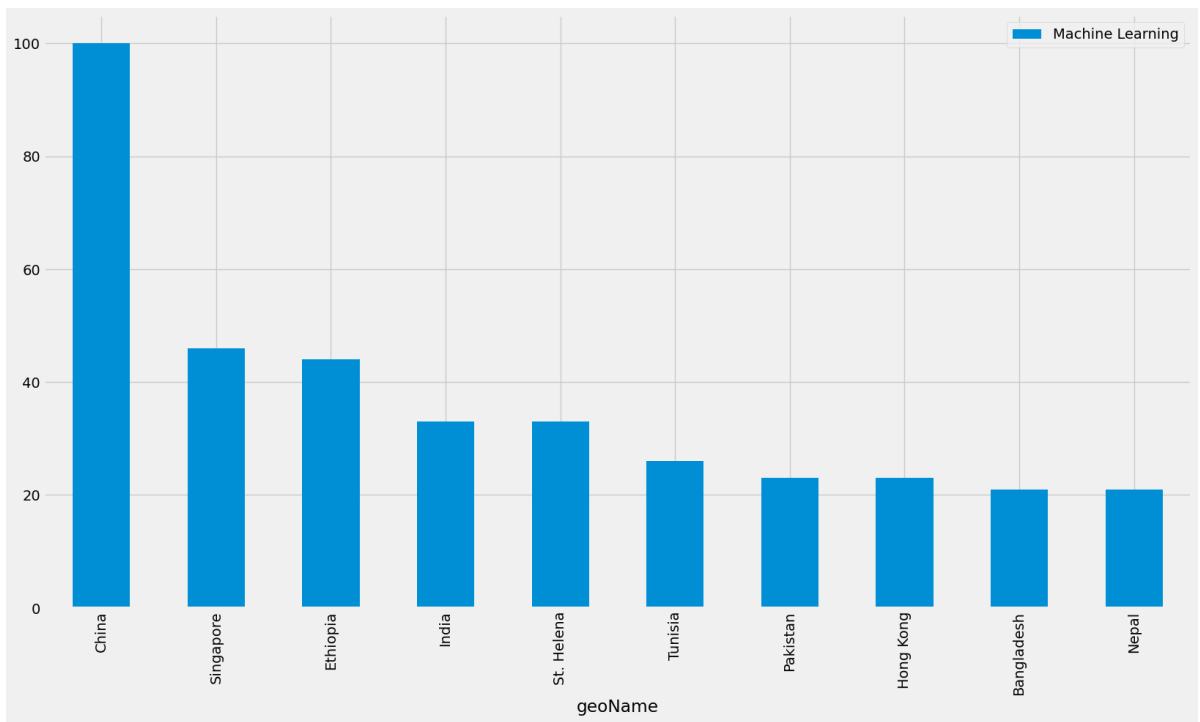
# So, according to the above results, the search queries based on "Machine Learning"
# We can also visualize this data using a bar chart:
```

Machine Learning	
geoName	
China	100
Singapore	46
Ethiopia	44
India	33
St. Helena	33
Tunisia	26
Pakistan	23
Hong Kong	23
Bangladesh	21
Nepal	21

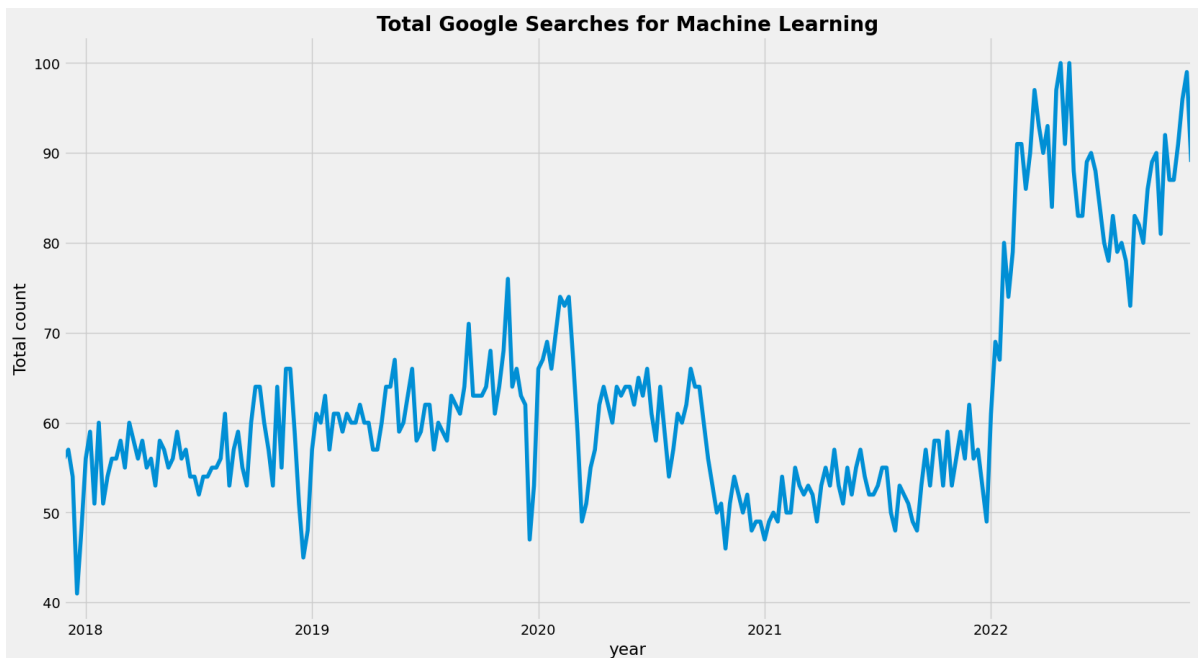
In [26]: `pip -V`

pip 22.2.2 from C:\ProgramData\Anaconda3\lib\site-packages\pip (python 3.9)Note: you may need to restart the kernel to use updated packages.

```
In [17]: data.reset_index().plot(x="geoName" , y="Machine Learning", figsize= (18,10), kind='bar',
plt.style.use('fivethirtyeight')
plt.show()
```



```
In [23]: data = TrendReq(hl='en-US', tz=360)
data.build_payload(kw_list = ["Machine Learning"])
data = data.interest_over_time()
fig, ax = plt.subplots(figsize = (18,10))
data ["Machine Learning"].plot()
plt.style.use('fivethirtyeight')
plt.title("Total Google Searches for Machine Learning", fontweight = "bold")
plt.xlabel("year")
plt.ylabel("Total count")
plt.show()
```



```
In [ ]:
```