

18F-0240_7A_GoogleTrendAnalytic

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R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
library(gtrendsR)
```

```
## Warning: package 'gtrendsR' was built under R version 4.1.2
```

```
library(ggplot2)
```

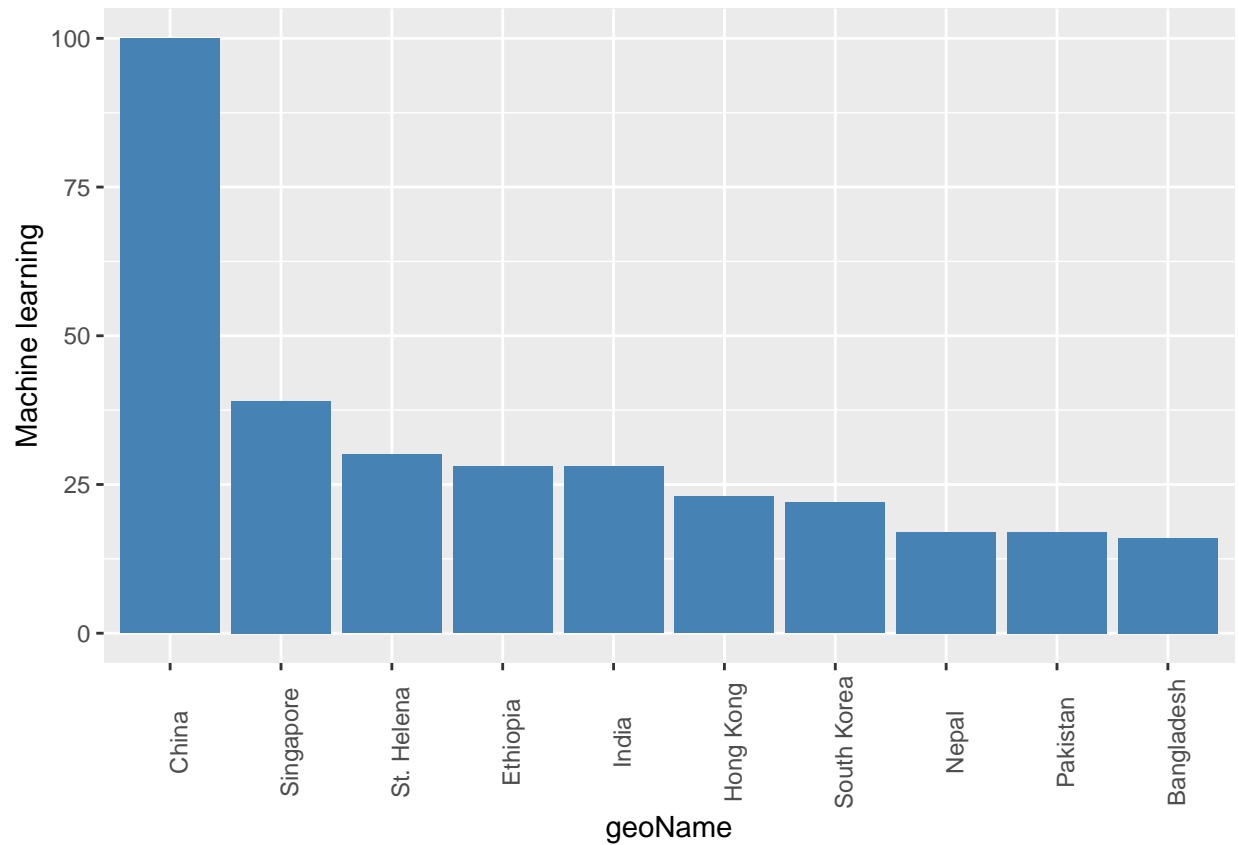
```
## Warning: package 'ggplot2' was built under R version 4.1.2
```

```
library(scales)
```

```
data = gtrends(keyword = "Machine Learning")$interest_by_country
data = data[-c(3:5)]
data = na.omit(data)
head(data,10)
```

```
##      location hits
## 1      China  100
## 2  Singapore   39
## 3  St. Helena   30
## 4   Ethiopia   28
## 5      India   28
## 7   Hong Kong   23
## 8 South Korea   22
## 11      Nepal   17
## 12  Pakistan   17
## 14 Bangladesh   16
```

```
ggplot(data=head(data,10), aes(x=reorder(location,-hits), y=hits)) +
  geom_bar(stat="identity", fill="steelblue")+ labs(x = "geoName", y = "Machine learning", color = "Leg
  theme(axis.text.x = element_text(angle = 90))
```



```
data = gtrends(keyword = "Machine Learning")$interest_over_time
data = data[-c(3:7)]
head(data,10)
```

```
##           date hits
## 1  2016-12-11   45
## 2  2016-12-18   44
## 3  2016-12-25   33
## 4  2017-01-01   40
## 5  2017-01-08   53
## 6  2017-01-15   43
## 7  2017-01-22   47
## 8  2017-01-29   50
## 9  2017-02-05   49
## 10 2017-02-12   53
```

```
tail(data,1)
```

```
##           date hits
## 260 2021-11-28   61
```

```
ggplot(data=data,
       aes(x=date, y=hits)) +
  geom_line(stat="identity",
```

```
color="steelblue")+  
labs(title="Total Google Searches for Machine Learning",  
x = "Year",  
y = "Total Count",  
color = "Legend Title\n")+  
theme_minimal()
```

