Assignment 02

September 5, 2021

1 Assignment 02: Evaluate the Summer Olympics, London 2012 dataset

The comments/sections provided are your cues to perform the assignment. You don't need to limit yourself to the number of rows/cells provided. You can add additional rows in each section to add more lines of code.

If at any point in time you need help on solving this assignment, view our demo video to understand the different steps of the code.

Happy coding!

1: View and add the dataset

[1]:
```
#Import the necessary library
import numpy as np
```

[2]:
```
#Manually add the Summer Olympics, London 2012 dataset as arrays
olympic_countries = np.array(['Great Britain', 'China', 'Russia','United␣
↪States', 'Korea', 'Japan', 'Germany'])
olympic_gold = np.array([29, 38, 24, 46, 13, 7, 11])
olympic_silver = np.array([17, 28, 25, 28, 8, 14, 11])
olympic_bronze = np.array([19, 22, 32, 29, 7, 17, 14])
```

Find the country with maximum gold medals

[4]:
```
#Use the argmax() method to find the highest number of gold medals
country_max_gold = olympic_countries[olympic_gold.argmax()]
```

[6]:
```
#Print the name of the country
print(country_max_gold)
```

```
United States
```

Find the countries with more than 20 gold medals

[9]:
```
#Use Boolean indexing technique to find the required output
print(olympic_countries[olympic_gold>20])
```

```
['Great Britain' 'China' 'Russia' 'United States']
```

Evaluate the dataset and print the name of each country with its gold medals and total number of medals

[11]:
```
#Use a for loop to create the required output
for i in range(len(olympic_countries)):
    gold = olympic_gold[i]
    country = olympic_countries[i]
    total_medals = olympic_bronze[i] + olympic_silver[i] + olympic_gold[i]
    print("{} won {} Gold Metals and Total of {} Medals".format(country, gold,␣
 ↪total_medals))
```

```
Great Britain won 29 Gold Metals and Total of 65 Medals
China won 38 Gold Metals and Total of 88 Medals
Russia won 24 Gold Metals and Total of 81 Medals
United States won 46 Gold Metals and Total of 103 Medals
Korea won 13 Gold Metals and Total of 28 Medals
Japan won 7 Gold Metals and Total of 38 Medals
Germany won 11 Gold Metals and Total of 36 Medals
```