

# CountryGDP

June 7, 2020

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[ ]: #Analyze GDP per capita for given set of Countries
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[1]: #import numpy
import numpy as np
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[6]: # adding data into respective array
countries = np.
    ↳array(['Algeria', 'Angola', 'Argentina', 'Australia', 'Austria', 'Bahamas', 'Bangladesh', 'Belarus',
           'Brazil', 'Bulgaria', 'Cambodia', 'Cameroon', 'Chile', 'China', 'Colombia', 'Cyprus', 'Denmark', 'El
           ↳Salvador',
           'Estonia', 'Ethiopia', 'Fiji', 'Finland', 'France', 'Georgia', 'Ghana', 'Grenada', 'Guinea', 'Haiti',
           'Hungary', 'India', 'Indonesia', 'Ireland', 'Italy', 'Japan', 'Kenya', 'South
           ↳Korea', 'Liberia', 'Malaysia',
           'Mexico', 'Morocco', 'Nepal', 'New
           ↳Zealand', 'Norway', 'Pakistan', 'Peru', 'Qatar', 'Russia', 'Singapore',
           'South Africa', 'Spain', 'Sweden', 'Switzerland', 'Thailand',
           ↳'United Arab Emirates', 'United Kingdom',
           'United
           ↳States', 'Uruguay', 'Venezuela', 'Vietnam', 'Zimbabwe'])
gdp_per_capita = np.array([2255.225482, 629.9553062, 11601.63022, 25306.
    ↳82494, 27266.40335, 19466.99052, 588.3691778, 2890.345675,
           24733.62696, 1445.760002, 4803.398244, 2618.876037, 590.
    ↳4521124, 665.7982328, 7122.938458, 2639.54156,
           3362.4656, 15378.16704, 30860.12808, 2579.115607, 6525.
    ↳541272, 229.6769525, 2242.689259, 27570.4852,
           23016.84778, 1334.646773, 402.6953275, 6047.200797, 394.
    ↳1156638, 385.5793827, 1414.072488, 5745.981529,
           837.7464011, 1206.991065, 27715.52837, 18937.
    ↳24998, 39578.07441, 478.2194906, 16684.21278, 279.2204061,
           5345.213415, 6288.25324, 1908.304416, 274.8728621, 14646.
    ↳42094, 40034.85063, 672.1547506, 3359.517402,
           36152.66676, 3054.727742, 33529.83052, 3825.
    ↳093781, 15428.32098, 33630.24604, 39170.41371, 2699.123242,
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21058.43643,28272.40661,37691.02733,9581.05659,5671.
↪912202,757.4009286,347.7456605])
```

```
[15]: # getting index of highest gdp
max_gdp_per_capita = gdp_per_capita.argmax()
# getting country name against same index
country_with_max_gdp_per_capita = countries[max_gdp_per_capita]
#country with highest gdp
country_with_max_gdp_per_capita
```

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[15]: 'Norway'
```

```
[14]: # getting index of lowest gdp
min_gdp_per_capita = gdp_per_capita.argmin()
# getting country name against same index
country_with_min_gdp_per_capita = countries[min_gdp_per_capita]
#country with lowest gdp
country_with_min_gdp_per_capita
```

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[14]: 'Ethiopia'
```

```
[27]: # Printing out text and input values iteratively
for country in countries:
    print ('evaluating country {}'.format(country))
```

```
evaluating country Algeria
evaluating country Angola
evaluating country Argentina
evaluating country Australia
evaluating country Austria
evaluating country Bahamas
evaluating country Bangladesh
evaluating country Belarus
evaluating country Belgium
evaluating country Bhutan
evaluating country Brazil
evaluating country Bulgaria
evaluating country Cambodia
evaluating country Cameroon
evaluating country Chile
evaluating country China
evaluating country Colombia
evaluating country Cyprus
evaluating country Denmark
evaluating country El Salvador
evaluating country Estonia
evaluating country Ethiopia
```

```
evaluating country Fiji
evaluating country Finland
evaluating country France
evaluating country Georgia
evaluating country Ghana
evaluating country Grenada
evaluating country Guinea
evaluating country Haiti
evaluating country Honduras
evaluating country Hungary
evaluating country India
evaluating country Indonesia
evaluating country Ireland
evaluating country Italy
evaluating country Japan
evaluating country Kenya
evaluating country South Korea
evaluating country Liberia
evaluating country Malaysia
evaluating country Mexico
evaluating country Morocco
evaluating country Nepal
evaluating country New Zealand
evaluating country Norway
evaluating country Pakistan
evaluating country Peru
evaluating country Qatar
evaluating country Russia
evaluating country Singapore
evaluating country South Africa
evaluating country Spain
evaluating country Sweden
evaluating country Switzerland
evaluating country Thailand
evaluating country United Arab Emirates
evaluating country United Kingdom
evaluating country United States
evaluating country Uruguay
evaluating country Venezuela
evaluating country Vietnam
evaluating country Zimbabwe
```

```
[28]: #printing out the entire list of the countries with their GDPs
      for i in range(len(countries)):
          country = countries[i]
          gdp = gdp_per_capita[i]
          print ('country {} per capita gdp {}'.format(country,gdp))
```

country Algeria per capita gdp 2255.225482  
country Angola per capita gdp 629.9553062  
country Argentina per capita gdp 11601.63022  
country Australia per capita gdp 25306.82494  
country Austria per capita gdp 27266.40335  
country Bahamas per capita gdp 19466.99052  
country Bangladesh per capita gdp 588.3691778  
country Belarus per capita gdp 2890.345675  
country Belgium per capita gdp 24733.62696  
country Bhutan per capita gdp 1445.760002  
country Brazil per capita gdp 4803.398244  
country Bulgaria per capita gdp 2618.876037  
country Cambodia per capita gdp 590.4521124  
country Cameroon per capita gdp 665.7982328  
country Chile per capita gdp 7122.938458  
country China per capita gdp 2639.54156  
country Colombia per capita gdp 3362.4656  
country Cyprus per capita gdp 15378.16704  
country Denmark per capita gdp 30860.12808  
country El Salvador per capita gdp 2579.115607  
country Estonia per capita gdp 6525.541272  
country Ethiopia per capita gdp 229.6769525  
country Fiji per capita gdp 2242.689259  
country Finland per capita gdp 27570.4852  
country France per capita gdp 23016.84778  
country Georgia per capita gdp 1334.646773  
country Ghana per capita gdp 402.6953275  
country Grenada per capita gdp 6047.200797  
country Guinea per capita gdp 394.1156638  
country Haiti per capita gdp 385.5793827  
country Honduras per capita gdp 1414.072488  
country Hungary per capita gdp 5745.981529  
country India per capita gdp 837.7464011  
country Indonesia per capita gdp 1206.991065  
country Ireland per capita gdp 27715.52837  
country Italy per capita gdp 18937.24998  
country Japan per capita gdp 39578.07441  
country Kenya per capita gdp 478.2194906  
country South Korea per capita gdp 16684.21278  
country Liberia per capita gdp 279.2204061  
country Malaysia per capita gdp 5345.213415  
country Mexico per capita gdp 6288.25324  
country Morocco per capita gdp 1908.304416  
country Nepal per capita gdp 274.8728621  
country New Zealand per capita gdp 14646.42094  
country Norway per capita gdp 40034.85063  
country Pakistan per capita gdp 672.1547506  
country Peru per capita gdp 3359.517402

```
country Qatar per capita gdp 36152.66676
country Russia per capita gdp 3054.727742
country Singapore per capita gdp 33529.83052
country South Africa per capita gdp 3825.093781
country Spain per capita gdp 15428.32098
country Sweden per capita gdp 33630.24604
country Switzerland per capita gdp 39170.41371
country Thailand per capita gdp 2699.123242
country United Arab Emirates per capita gdp 21058.43643
country United Kingdom per capita gdp 28272.40661
country United States per capita gdp 37691.02733
country Uruguay per capita gdp 9581.05659
country Venezuela per capita gdp 5671.912202
country Vietnam per capita gdp 757.4009286
country Zimbabwe per capita gdp 347.7456605
```

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[34]: #Printing the highest GDP value
      print(gdp_per_capita.max())
```

40034.85063

```
[35]: #lowest GDP value
      print(gdp_per_capita.min())
```

229.6769525

```
[36]: #mean GDP value
      print(gdp_per_capita.mean())
```

11289.409271639683

```
[37]: #standardized GDP value
      print(gdp_per_capita.std())
```

12743.828910617945

```
[38]: #the sum of all the GDPs
      print(gdp_per_capita.sum())
```

711232.7841133