

```

1 C:\Users\adity\PycharmProjects\
  pythonProject\.venv\Scripts\python.exe
  "C:\Users\adity\PycharmProjects\
  pythonProject\MachineLearningProjects\
  VISUALIZATION OF WORLD GDP AND CARBON
  - DIOXIDE EMISSION.py"
2 data.shape: (5656458, 6)
3 Sample Data:
4   CountryName CountryCode ... Year
      Value
5 0 Arab World          ARB ... 1960 1
   .335609e+02
6 1 Arab World          ARB ... 1960 8
   .779760e+01
7 2 Arab World          ARB ... 1960 6
   .634579e+00
8 3 Arab World          ARB ... 1960 8
   .102333e+01
9 4 Arab World          ARB ... 1960 3
   .000000e+06
10
11 [5 rows x 6 columns]
12 Columns:
13 Index(['CountryName', 'CountryCode', '
  IndicatorName', 'IndicatorCode', 'Year
  ',
14         'Value'],
15        dtype='object')
16 Number of countries: 247
17 Number of country codes: 247
18 Number of indicators: 1344

```

```

19 Number of years: 56
20 1960 to 2015
21 (52, 6)
22 Indicator Name: C02 emissions (metric
   tons per capita)
23 [15.999777916 15.68125552 16.0139375 16
   .48276215 16.96811858 17.45172525
24 18.12107301 18.59831788 19.08938916 19
   .85794566 21.11125227 20.98020348
25 21.74864198 22.51058213 21.50293038 20
   .40222407 21.15761537 21.53248401
26 21.97300469 21.78043698 20.78648774 19
   .76676417 18.59049523 18.57154371
27 18.97675027 18.88231274 18.72072272 19
   .35033442 20.01041341 20.07576978
28 19.32336817 19.06223666 19.14555576 19
   .36346258 19.37655644 19.29565986
29 19.52789051 19.71427574 19.6151546 19
   .74781478 20.20761476 19.65619321
30 19.63919577 19.57623905 19.68358135 19
   .61027504 19.11613882 19.23746045
31 18.48923375 17.1923791 17.48479218 17
   .02021634]
32 52
33 232
34 GDP: CountryName CountryCode
   ... Year Value
35 22282 United States USA
   ... 1960 15482.707760
36 48759 United States USA
   ... 1961 15578.409657

```

```
37 77142    United States      USA
    ...    1962    16276.426685
38 105760   United States      USA
    ...    1963    16749.789436
39 134798   United States      USA
    ...    1964    17476.822248
40
41 [5 rows x 6 columns]
42 GDP Min Year = 1960 max: 2014
43 C02 Min Year = 1960 max: 2011
44 52
45 52
46 [[1.          0.07676005]
47  [0.07676005  1.          ]]
48
49 Process finished with exit code 0
50
```