Life Expectancy Data

Life-expectancy.csv

Life expectancy data was taken from Our World in Data for 239 unique countries ranging from the years 1950-2023. The data was filtered to only include the United States.

Unit of Observation

Each row represents a different country in a different year, with that country's period life expectancy at birth being shown for that time period.

Variables

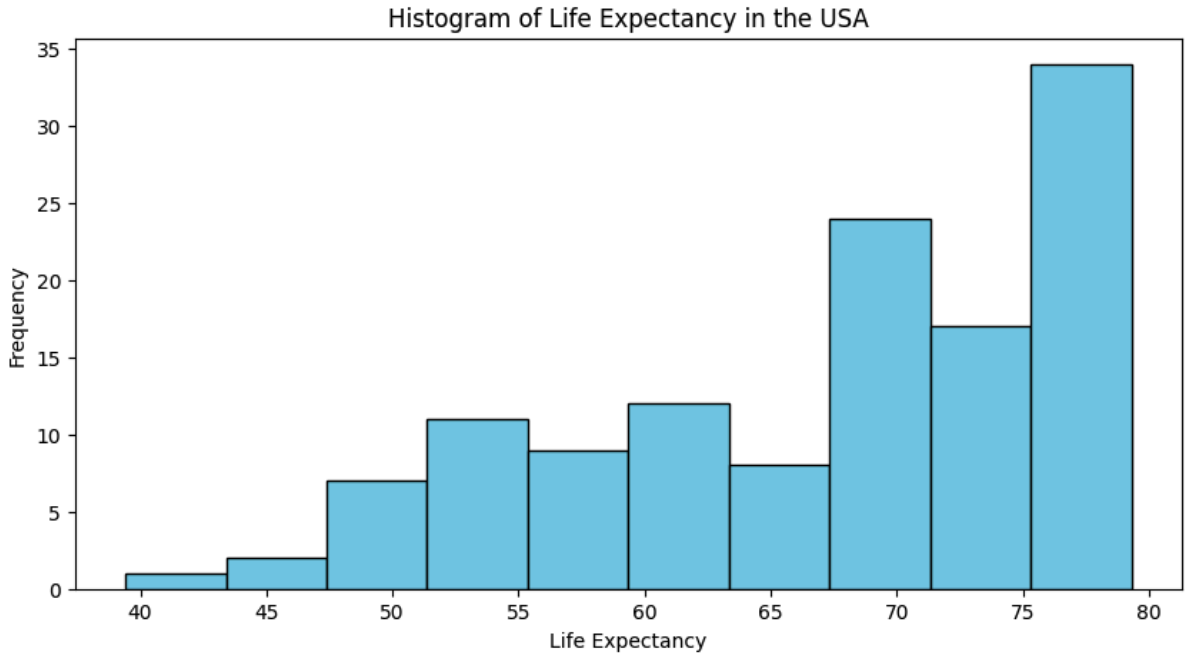
1. Entity
    a. Country name
    b. Data type: Object
    c. Missing values: 0 (21565(0))
2. Code
    a. ISO country code (e.g. USA = United States, AUT = Austria)
    b. Data type: Object
    c. Missing values: 1956 (21565(1956))
3. Year
    a. The year in which life expectancy is recorded
    b. Data type: Integer
    c. Missing values: 0 (21565(0))
4. Period life expectancy at birth
    a. A metric that summarizes death rates across all age groups in one particular year
    b. Data type: Float
    c. Missing values: 0 (21565(0))

Summary Statistics

Count	124.00
Mean	67.52
Standard Deviation	9.37
Minimum	45.21
25%	60.04
50%	70.03
75%	75.61

Maximum	79.30

Histogram



Daily-per-capita-caloric-supply.csv

Daily per capita caloric supply data was taken from Our World in Data for 239 unique countries from the years ranging 1961-2021. The data was filtered to only include the United States.

Unit of Observation

Each row represents a specific country in a specific year, with that country's daily caloric supply per person shown for that time period.

Variables

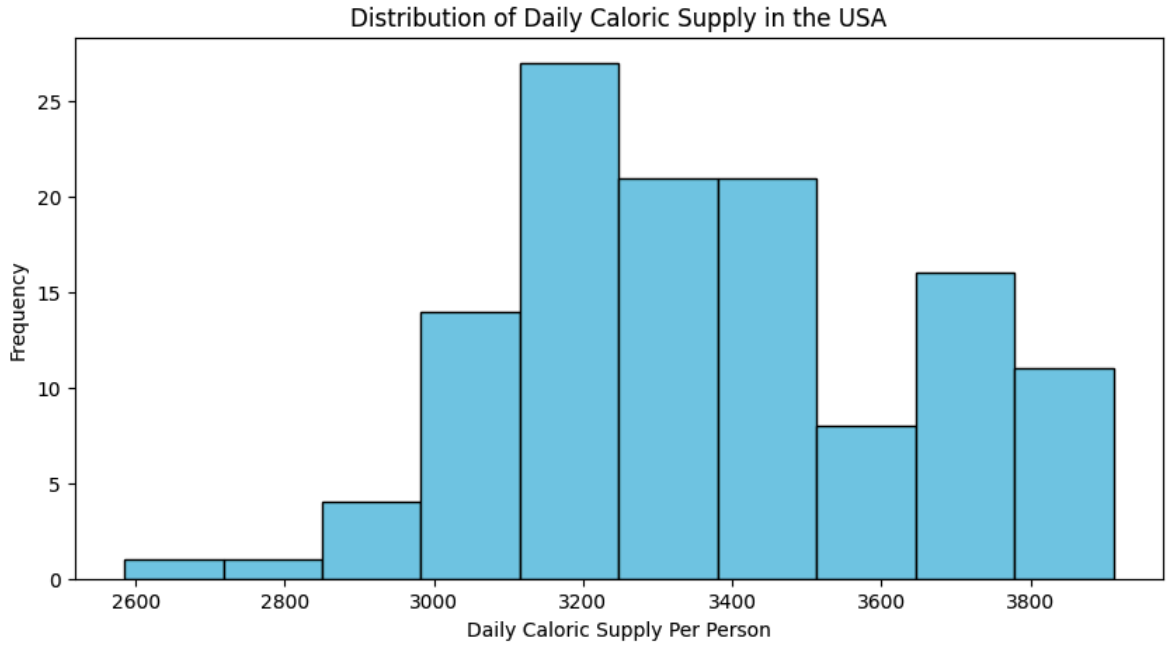
1. Entity
    a. Country name
    b. Data type: Object
    c. Missing values: 0 (12825(0))
2. Code
    a. ISO country code (e.g. USA = United States, AUT = Austria)
    b. Data type: Object
    c. Missing values: 2619 (12825(2619))
3. Year
    a. The year in which caloric supply is recorded
    b. Data type: Integer
    c. Missing values: 0 (12825(0))

4. Daily calorie supply per person
    a. A metric that represents the average daily caloric supply per person in one particular year
    b. Data type: Float
    c. Missing values: 0 (12825(0))

Summary Statistics

Count	124.00
Mean	3366.57
Standard Deviation	267.79
Minimum	2585.00
25%	3200.00
50%	3300.00
75%	3587.39
Maximum	3911.00

Histogram



Gdp-per-capita-worldbank.csv

GDP per capita data was taken from Our World in Data for 239 unique countries for a timeframe of 2000-2023. The data was filtered to only include the United States.

Unit of Observation

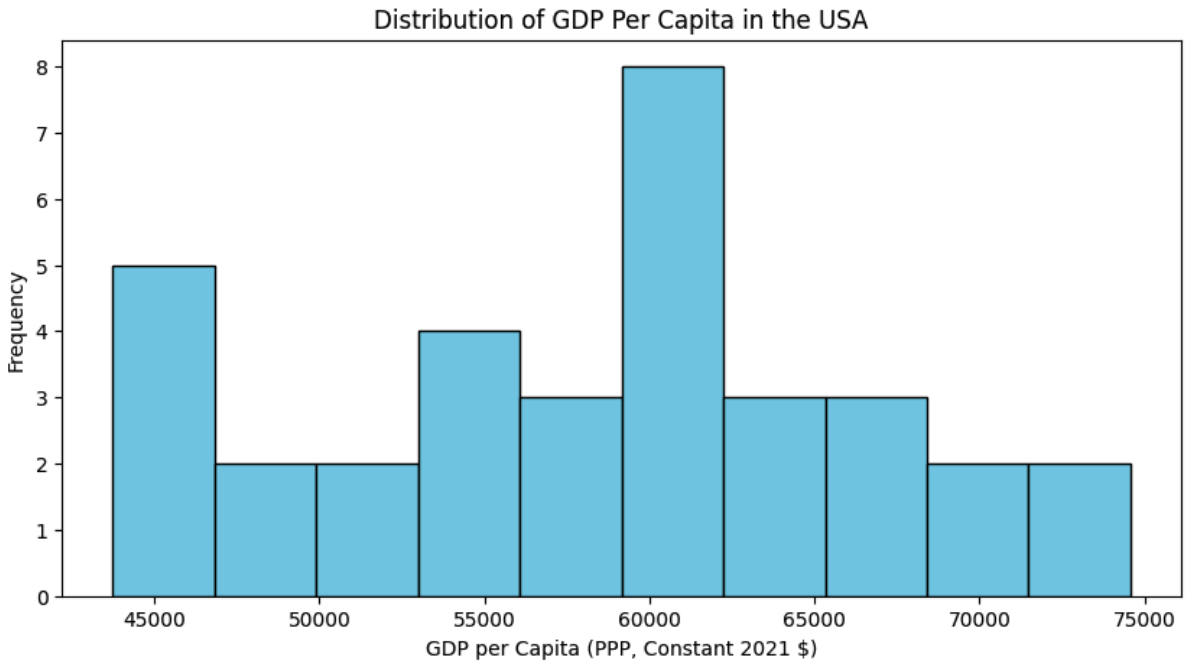
Variables

1. Entity
    a. Country name
    b. Data type: Object
    c. Missing values: 0 (7063(0))
2. Code
    a. ISO country code (e.g. USA = United States, AUT = Austria)
    b. Data type: Object
    c. Missing values: 458 (7063(458))
3. Year
    a. The year in which gdp per capita is recorded
    b. Data type: Integer
    c. Missing values: 0 (7063(0))
4. GDP per capita, PPP (constant 2021 international $)
    a. The GDP per capita, PPP (constant 2021 international $) in a particular year
    b. Data type: Float
    c. Missing values: 0 (7063(0))

Summary Statistics

Count	34.00
Mean	58327.72
Standard Deviation	8649.68
Minimum	43742.03
25%	52083.41
50%	59702.02
75%	64229.37
Maximum	74577.51

Histogram



Total-healthcare-expenditure-gdp.csv

Total healthcare expenditure as a percentage of gdp was taken from Our World in Data for 239 unique countries from a timeframe of 2002-2021. The data was filtered to only include the United States.

Unit of Observation

Each row represents a specific country in a certain year, with that country's current healthcare expenditure as a percentage of GDP shown for that time period.

Variables

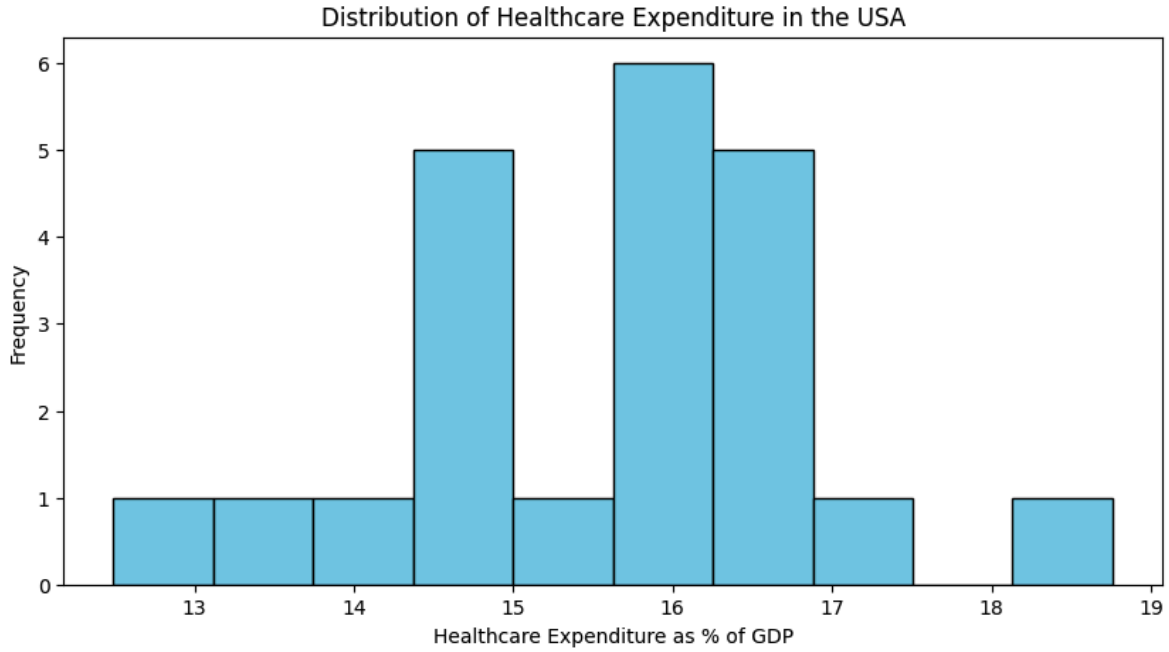
1. Entity
    a. Country name
    b. Data type: Object
    c. Missing values: 0 (4289(0))
2. Code
    a. ISO country code (e.g. USA = United States, AUT = Austria)
    b. Data type: Object
    c. Missing values: 132 (4289(132))
3. Year
    a. The year in which total healthcare expenditure is recorded
    b. Data type: Integer
    c. Missing values: 0 (4289(0))
4. Current health expenditure (CHE) as a percentage of gross domestic product (GDP) (%)
    a. Current health expenditure (CHE) is a metric that is the percentage of gross domestic product (GDP) (%) that goes towards healthcare in a particular year
    b. Data type: Float

c. Missing values: 0 (4289(0))

Summary Statistics

Count	22.00
Mean	15.66
Standard Deviation	1.44
Minimum	12.49
25%	14.61
50%	16.13
75%	16.60
Maximum	18.76

Histogram



Merged-data.csv

The merged-data.csv file represents our datasets combined, with the year column converted to a datetime format, and with the four datasets merged on the “Year” column to create a single time-series dataset.

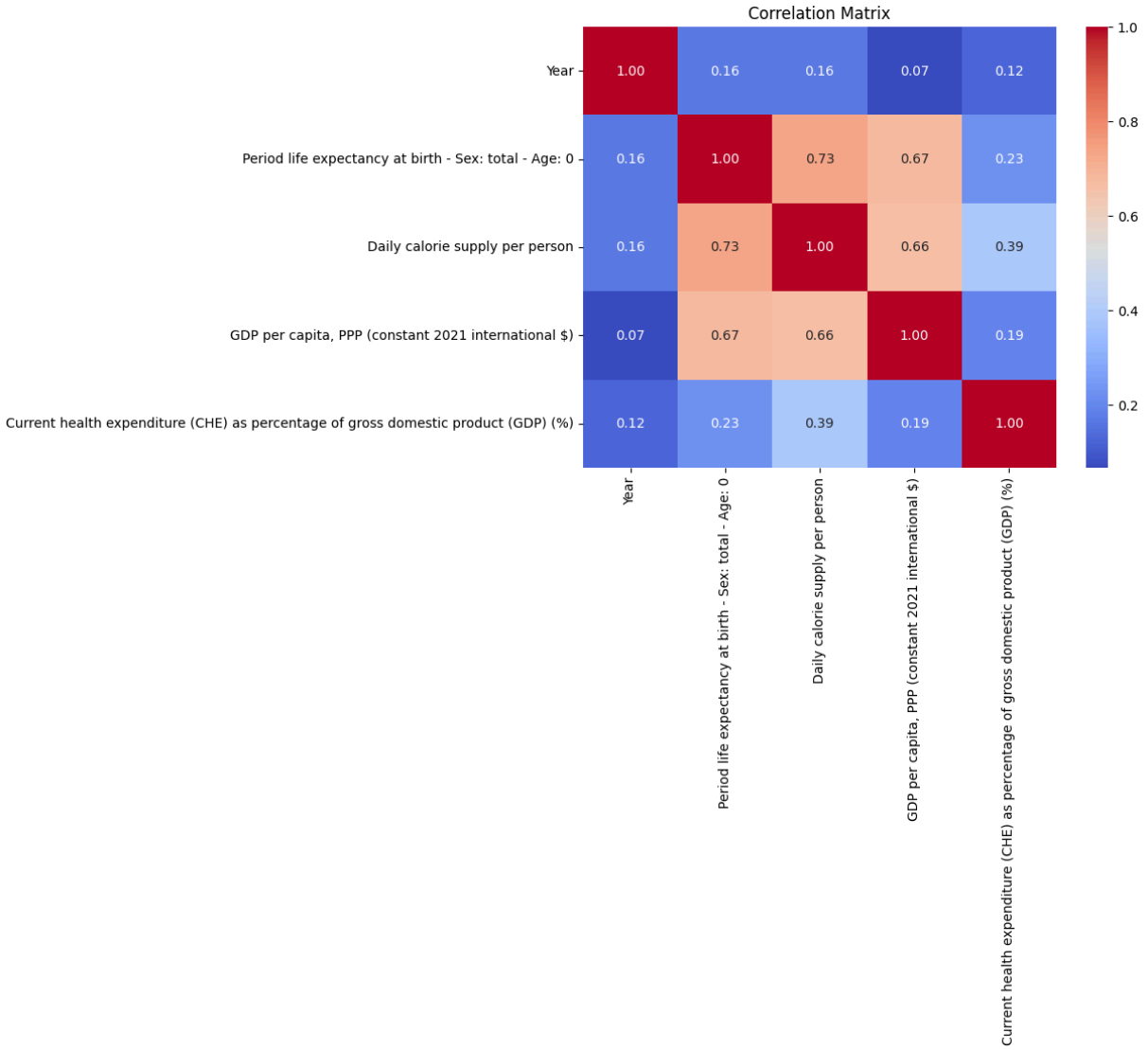
Unit of Observation

Each row represents the United states in a different year, ranging from 2000 to 2021. In each year, there are values for daily caloric supply, GDP per capita, healthcare expenditure as a percentage of GDP, and life expectancy.

Variables

1. Year
    a. The year in which data was recorded
    b. Data type: Integer
    c. Missing values: 0 (22(0))
2. Daily caloric supply
    a. A metric that represents the average daily caloric supply per person in one particular year
    b. Data type: Float
    c. Missing values: 0 (22(0))
3. GDP per capita
    a. The GDP per capita, PPP (constant 2021 international $) in a particular year
    b. Data type: Float
    c. Missing values: 0 (22(0))
4. Health expenditure as percentage of GDP
    a. Current health expenditure (CHE) is a metric that is the percentage of gross domestic product (GDP) (%) that goes towards healthcare in a particular year
    b. Data type: Float
    c. Missing values: 0 (22(0))
5. Life expectancy
    a. A metric that summarizes death rates across all age groups in one particular year
    b. Data type: Float
    c. Missing values: 0 (22(0))

Correlation Matrix


Correlation Matrix
Year
Period life expectancy at birth - Sex: total - Age: 0
Daily calorie supply per person
GDP per capita, PPP (constant 2021 international $)
Current health expenditure (CHE) as percentage of gross domestic product (GDP) (%)
1.00 0.16 0.16 0.07 0.12
0.16 1.00 0.73 0.67 0.23
0.16 0.73 1.00 0.66 0.39
0.07 0.67 0.66 1.00 0.19
0.12 0.23 0.39 0.19 1.00
1.0
0.8
0.6
0.4
0.2