analysis

May 24, 2024

```python
[1]: import pandas as pd
     import numpy as np
     import matplotlib.pyplot as plt
     from scipy.stats import norm,normaltest
     from scipy.stats import f
     from scipy import stats
     import math
     pd.options.mode.chained_assignment = None
```

1 DATA DESCRIPTION (LIBRARY)

```python
[2]: # Read data
     data = pd.read_csv("health.csv")
     data.head()
```

```
[2]:    Unnamed: 0  Age        Income  Gender        Education  Stress_Level  \
     0           0   50  3.093457e+06    Male  Bachelor's Degree      4.967887
     1           1   44  5.545445e+06    Male  Bachelor's Degree      5.833649
     2           2   25  4.401808e+06    Male    Master's Degree      5.587946
     3           3   41  4.606865e+06  Female        High School      6.271119
     4           4   24  6.956049e+06    Male  Bachelor's Degree      5.895226

        Exercise_Hours_Per_Week  Cholesterol_Level      Weight      Height  \
     0                16.632494         200.419036   70.917032  150.401537
     1                13.255988         201.010046   70.669576  149.285349
     2                11.144370         200.105258   67.464506  150.020695
     3                 9.140268         199.648701   67.566598  150.360963
     4                 9.775610         199.330152   79.601530  149.730525

        Blood_Pressure Health_Status
     0      125.568820     Excellent
     1      125.603505          Fair
     2      127.093163     Excellent
     3      117.388100          Poor
     4      114.163706          Fair
```

```
[3]: # Data information
     data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2000 entries, 0 to 1999
Data columns (total 12 columns):
 #   Column                  Non-Null Count  Dtype
---  ------                  --------------  -----
 0   Unnamed: 0              2000 non-null   int64
 1   Age                     2000 non-null   int64
 2   Income                  2000 non-null   float64
 3   Gender                  2000 non-null   object
 4   Education               2000 non-null   object
 5   Stress_Level            2000 non-null   float64
 6   Exercise_Hours_Per_Week 2000 non-null   float64
 7   Cholesterol_Level       2000 non-null   float64
 8   Weight                  2000 non-null   float64
 9   Height                  2000 non-null   float64
 10  Blood_Pressure          2000 non-null   float64
 11  Health_Status           2000 non-null   object
dtypes: float64(7), int64(2), object(3)
memory usage: 187.6+ KB
```

```
[4]: # Data description
     data.describe()
```

[4]:
	Unnamed: 0	Age	Income	Stress_Level
count	2000.000000	2000.000000	2.000000e+03	2000.000000
mean	999.500000	39.417500	4.889928e+06	5.356912
std	577.494589	11.560753	2.010795e+06	0.917069
min	0.000000	20.000000	-1.088987e+06	2.528057
25%	499.750000	30.000000	3.580714e+06	4.737650
50%	999.500000	39.000000	4.898901e+06	5.351795
75%	1499.250000	49.250000	6.271595e+06	6.003014
max	1999.000000	59.000000	1.222749e+07	8.581327

	Exercise_Hours_Per_Week	Cholesterol_Level	Weight	Height
count	2000.000000	2000.000000	2000.000000	2000.000000
mean	9.951842	200.223191	70.234359	150.730565
std	4.909573	0.972594	10.174343	0.680443
min	-4.499310	196.914948	32.581758	149.124594
25%	6.654951	199.581975	63.654894	150.240019
50%	9.927028	200.221522	70.392125	150.663619
75%	13.232218	200.873647	76.894512	151.140489
max	26.816358	203.162335	109.609562	153.870469

	Blood_Pressure

```
count     2000.000000
mean       119.682437
std         11.201412
min          0.000000
25%        113.048602
50%        119.937396
75%        126.608781
max        200.950000
```

[5]:
```python
# Without using describe function
if 'Unnamed: 0' in data.columns:
    data = data.drop(columns=['Unnamed: 0'])

for column in data.columns:
    col = pd.Series(data[column])
    dtype = data[column].dtype
    print(f"Column: {column}")

    if dtype != "object":
        # Numeric data
        print("Total data: ", col.count())
        print("Mean: ", round(col.mean(), 3))
        print("Median: ", round(col.median(), 3))
        print("Mode: ", [round(val, 3) for val in col.mode().values])
        print("Variance: ", round(col.var(), 3))
        print("Standard Deviation: ", round(col.std(), 3))
        print("Minimum: ", round(col.min(), 3))
        print("Maximum: ", round(col.max(), 3))
        print("Range: ", round(col.max() - col.min(), 3))
        print("Q1: ", round(col.quantile(0.25), 3))
        print("Q3: ", round(col.quantile(0.75), 3))
        print("Interquartile Range (IQR): ", round(col.quantile(0.75) - col.
 ↪quantile(0.25), 3))
        print("Skewness: ", round(col.skew(), 3))
        print("Kurtosis: ", round(col.kurtosis(), 3))
    else:
        # Non-numeric data
        print("Unique Values: ", col.unique())
        print("Value Counts: ")
        print(col.value_counts(normalize=True).round(3))

    print("\n" + "-"*100 + "\n")
```

```
Column: Age
Total data:  2000
Mean:  39.418
Median:  39.0
```

```
Mode:  [53]
Variance:  133.651
Standard Deviation:  11.561
Minimum:  20
Maximum:  59
Range:  39
Q1:  30.0
Q3:  49.25
Interquartile Range (IQR):  19.25
Skewness:  -0.005
Kurtosis:  -1.203


--------------------------------------------------------------------------------
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Column: Income
Total data:  2000
Mean:  4889928.319
Median:  4898900.675
Mode:  [-1088986.526, -967729.125, -637266.338, -523574.529, -494410.322,
-471927.413, -341848.385, -304466.516, -223218.49, -158270.535, -130776.97,
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Column: Gender
Unique Values:  ['Male' 'Female']
Value Counts:
Gender
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Male      0.494
Name: proportion, dtype: float64


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Column: Education
Unique Values:  ["Bachelor's Degree" "Master's Degree" 'High School' 'PhD'
'Other'
 'undefined']
Value Counts:
Education
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PhD                   0.124
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7.845, 7.873, 7.873, 7.908, 7.917, 7.928, 8.169, 8.192, 8.581]
Variance: 0.841
Standard Deviation: 0.917
Minimum: 2.528
Maximum: 8.581
Range: 6.053
Q1: 4.738
Q3: 6.003
Interquartile Range (IQR): 1.265
Skewness: -0.013
Kurtosis: -0.13

Column: Exercise_Hours_Per_Week
Total data: 2000
Mean: 9.952
Median: 9.927
Mode: [-4.499, -4.299, -4.248, -3.645, -3.633, -3.344, -3.064, -2.688, -2.636,
-2.636, -2.502, -2.087, -2.077, -1.927, -1.906, -1.67, -1.553, -1.443, -1.326,
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22.773, 23.104, 23.27, 23.433, 23.463, 23.507, 23.794, 23.883, 24.033, 25.146,
25.531, 26.796, 26.816]
Variance: 24.104
Standard Deviation: 4.91
Minimum: -4.499
Maximum: 26.816
Range: 31.316
Q1: 6.655
Q3: 13.232
Interquartile Range (IQR): 6.577
Skewness: 0.061
Kurtosis: 0.018

Column: Cholesterol_Level
Total data: 2000
Mean: 200.223
Median: 200.222
Mode: [196.915, 197.009, 197.028, 197.23, 197.366, 197.382, 197.398, 197.451,
197.461, 197.57, 197.662, 197.665, 197.675, 197.722, 197.766, 197.878, 197.91,
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202.171, 202.173, 202.2, 202.214, 202.22, 202.227, 202.229, 202.232, 202.239,
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202.41, 202.422, 202.428, 202.461, 202.462, 202.463, 202.482, 202.493, 202.539,
202.565, 202.579, 202.672, 202.682, 202.728, 202.834, 202.876, 202.899, 202.903,
202.921, 202.942, 203.162]
Variance: 0.946
Standard Deviation: 0.973
Minimum: 196.915
Maximum: 203.162
Range: 6.247
Q1: 199.582
Q3: 200.874
Interquartile Range (IQR): 1.292
Skewness: -0.072
Kurtosis: 0.006

Column: Weight
Total data: 2000
Mean: 70.234
Median: 70.392
Mode: [32.582, 38.022, 38.667, 40.21, 41.274, 42.271, 42.429, 42.931, 43.21,
43.381, 43.839, 43.974, 44.022, 44.091, 44.125, 44.315, 44.493, 44.604, 44.771,
44.826, 45.44, 45.578, 46.102, 46.785, 46.803, 47.097, 47.14, 47.364, 47.547,
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93.811, 93.892, 94.07, 94.677, 95.357, 95.429, 95.752, 96.316, 96.382, 96.563,
96.614, 97.445, 97.456, 97.475, 97.577, 97.861, 100.333, 100.976, 102.708,
103.488, 109.61]
Variance: 103.517

Standard Deviation: 10.174
Minimum: 32.582
Maximum: 109.61
Range: 77.028
Q1: 63.655
Q3: 76.895
Interquartile Range (IQR): 13.24
Skewness: -0.058
Kurtosis: 0.125

Column: Height
Total data: 2000
Mean: 150.731
Median: 150.664
Mode: [149.125, 149.144, 149.225, 149.256, 149.268, 149.285, 149.294, 149.315,
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152.658, 152.68, 152.706, 152.717, 152.734, 152.755, 152.771, 152.782, 152.79,
152.804, 152.842, 152.942, 152.956, 153.043, 153.107, 153.134, 153.137, 153.363,
153.494, 153.844, 153.87]

```
Variance:  0.463
Standard Deviation:  0.68
Minimum:  149.125
Maximum:  153.87
Range:  4.746
Q1:  150.24
Q3:  151.14
Interquartile Range (IQR):  0.9
Skewness:  0.657
Kurtosis:  0.708


--------------------------------------------------------------------------------
--------------------

Column: Blood_Pressure
Total data:  2000
Mean:  119.682
Median:  119.937
Mode:  [0.0]
Variance:  125.472
Standard Deviation:  11.201
Minimum:  0.0
Maximum:  200.95
Range:  200.95
Q1:  113.049
Q3:  126.609
Interquartile Range (IQR):  13.56
Skewness:  -1.627
Kurtosis:  18.838


--------------------------------------------------------------------------------
--------------------

Column: Health_Status
Unique Values:  ['Excellent' 'Fair' 'Poor' 'Good']
Value Counts:
Health_Status
Fair         0.260
Poor         0.252
Excellent    0.252
Good         0.237
Name: proportion, dtype: float64


--------------------------------------------------------------------------------
--------------------
```

```python
[6]: numeric_data = data.select_dtypes(include=[int, float])
     Q1 = numeric_data.quantile(0.25)
     Q3 = numeric_data.quantile(0.75)
     IQR = Q3 - Q1
```

```python
[7]: # Additional data description for non numeric data
     string_data = data.select_dtypes(include=[object])

     print("Unique Values:\n", string_data.nunique())
     print("\nProportions:\n", string_data.value_counts(normalize=False))
```

```
Unique Values:
 Gender           2
Education         6
Health_Status     4
dtype: int64

Proportions:
 Gender  Education          Health_Status
Male    Bachelor's Degree  Good             134
Female  Bachelor's Degree  Excellent        129
Male    Bachelor's Degree  Excellent        126
                           Fair             124
Female  Bachelor's Degree  Poor             112
                           Fair             108
                           Good             106
Male    Bachelor's Degree  Poor             101
Female  Master's Degree    Fair              77
                           Poor              67
Male    Master's Degree    Poor              66
Female  Master's Degree    Excellent         62
Male    Master's Degree    Good              59
                           Fair              53
                           Excellent         50
Female  Master's Degree    Good              48
        PhD                Poor              39
        High School        Fair              39
Male    High School        Fair              39
Female  High School        Poor              38
Male    PhD                Poor              36
Female  High School        Excellent         35
                           Good              34
        PhD                Excellent         33
Male    High School        Excellent         31
                           Poor              30
        PhD                Good              29
Female  PhD                Good              28
```

```
Male      PhD                  Excellent         28
                               Fair              28
Female    PhD                  Fair              26
Male      High School          Good              25
          Other                Fair              12
Female    Other                Fair              12
                               Poor               9
Male      Other                Excellent          6
Female    Other                Good               5
Male      Other                Good               5
                               Poor               5
Female    Other                Excellent          3
Male      undefined            Fair               1
Female    undefined            Good               1
Male      undefined            Poor               1
Name: count, dtype: int64
```

```
[8]: print (data["Education"].unique())
```

```
["Bachelor's Degree" "Master's Degree" 'High School' 'PhD' 'Other'
 'undefined']
```

2 DATA DESCRIPTION (MANUAL)

2.1 Fungsi Buatan

```python
[9]: # Mean
     def mean_own(lst):
         if not all(isinstance(x, (float, int)) for x in lst):
             return None
         return sum(lst) / len(lst)

     # Median
     def median_own(lst):
         if not all(isinstance(x, (float, int)) for x in lst):
             return None
         sorted_lst = sorted(lst)
         n = len(sorted_lst)
         if n % 2 == 0:
             mid = n // 2
             return (sorted_lst[mid - 1] + sorted_lst[mid]) / 2
         else:
             return sorted_lst[n // 2]

     # Modus
     def mode_own(lst):
         freq_map = {}
```

```python
    for item in lst:
        if item in freq_map:
            freq_map[item] += 1
        else:
            freq_map[item] = 1

    max_freq = max(freq_map.values())
    mode = [key for key, value in freq_map.items() if value == max_freq]

    if len(mode) == 0:
        return list(set(lst))
    else:
        return mode

# Standard Deviation
def std_own(lst):
    if not all(isinstance(x, (float, int)) for x in lst):
        return None

    mean = mean_own(lst)
    sum_squared_diff = sum((x - mean) ** 2 for x in lst)
    mean_squared_diff = sum_squared_diff / len(lst)
    std_dev = math.sqrt(mean_squared_diff)

    return std_dev

# Variance
def variance_own(lst):
    if not all(isinstance(x, (float, int)) for x in lst):
        return None
    return std_own(lst)**2

# Maximum Value
def max_data_own(lst):
    if not all(isinstance(x, (float, int)) for x in lst):
        return None
    return max(lst)

# Minimum Value
def min_data_own(lst):
    if not all(isinstance(x, (float, int)) for x in lst):
        return None
    return min(lst)

# Range
def range(lst):
    if not all(isinstance(x, (float, int)) for x in lst):
```

```python
        return None
    return max_data_own(lst) - min_data_own(lst)

# First Quartile
def quartile_first(lst):
    if not all(isinstance(x, (float, int)) for x in lst):
        return None

    sorted_lst = sorted(lst)

    n = len(sorted_lst)

    if n % 2 == 0:
        lower_half = sorted_lst[:n // 2]
        q1_index = len(lower_half) // 2
        q1 = (lower_half[q1_index - 1] + lower_half[q1_index]) / 2
    else:
        lower_half = sorted_lst[:n // 2 + 1]
        q1_index = len(lower_half) // 2
        q1 = lower_half[q1_index]

    return q1

# Second Quartile
def quartile_second(lst):
    if not all(isinstance(x, (float, int)) for x in lst):
        return None

    sorted_lst = sorted(lst)

    n = len(sorted_lst)

    if n % 2 == 0:
        q2_index = n // 2
        q2 = (sorted_lst[q2_index - 1] + sorted_lst[q2_index]) / 2
    else:
        q2_index = n // 2
        q2 = sorted_lst[q2_index]

    return q2

# Third Quartile
def quartile_third(lst):
    if not all(isinstance(x, (float, int)) for x in lst):
        return None

    sorted_lst = sorted(lst)
```

```python
    n = len(sorted_lst)

    if n % 2 == 0:
        upper_half = sorted_lst[n // 2:]
        q3_index = len(upper_half) // 2
        q3 = (upper_half[q3_index - 1] + upper_half[q3_index]) / 2
    else:
        upper_half = sorted_lst[n // 2 + 1:]
        q3_index = len(upper_half) // 2
        q3 = upper_half[q3_index]

    return q3

# IQR (Interquartile Range)
def iqr_own(lst):
    if not all(isinstance(x, (float, int)) for x in lst):
        return None
    return quartile_third(lst) - quartile_first(lst)

# Skewness
def skewness_own(lst):
    if not all(isinstance(x, (float, int)) for x in lst):
        return None

    mean = mean_own(lst)
    std_dev = std_own(lst)
    n = len(lst)

    skewness = (sum((x - mean) ** 3 for x in lst) * n) / ((n - 1) * (n - 2) *
 ↪std_dev ** 3)

    return skewness

# Kurtosis
def kurtosis_own(lst):
    if not all(isinstance(x, (float, int)) for x in lst):
        return None

    mean = mean_own(lst)
    std_dev = std_own(lst)
    n = len(lst)

    kurtosis = (sum((x - mean) ** 4 for x in lst) * n * (n + 1)) / ((n - 1) *
 ↪(n - 2) * (n - 3) * std_dev ** 4) - (3 * (n - 1) ** 2) / ((n - 2) * (n - 3))

    return kurtosis
```

```python
# Unique Value
def unique_values_own(lst):
    if not all(isinstance(x, str) for x in lst):
        return None

    unique_set = set(lst)
    num_unique = len(unique_set)

    return num_unique

# Proportion
def proportion(lst):
  arr = {}
  for x in lst:
    if x in arr:
      arr[x] += 1
    else:
      arr.setdefault(x, 1)

  sum_val = sum(arr.values())
  for x in arr:
    arr[x] /= sum_val

  return arr

def calculate_length(lst):
    length = 0
    for _ in lst:
        length += 1
    return length
```

2.2 Result

```python
[10]: if 'Unnamed: 0' in data.columns:
          data = data.drop(columns=['Unnamed: 0'])

      for column in data.columns:
          col = pd.Series(data[column])
          dtype = data[column].dtype
          print(f"Column: {column}")

          if dtype != "object":
              # Numeric data
              print("Total data: ", calculate_length(col))
              print("Mean: ", round(mean_own(col), 3))
              print("Median: ", round(median_own(col), 3))
```

```python
        print("Mode: ", mode_own(col))
        print("Variance: ", round(variance_own(col), 3))
        print("Standard Deviation: ", round(std_own(col), 3))
        print("Minimum: ", round(min_data_own(col), 3))
        print("Maximum: ", round(max_data_own(col), 3))
        print("Range: ", round(max_data_own(col) - min_data_own(col), 3))
        print("Q1: ", round(quartile_first(col), 3))
        print("Q2: ", round(quartile_second(col), 3))
        print("Q3: ", round(quartile_third(col), 3))
        print("Interquartile Range (IQR): ", round(quartile_third(col) -
 ↪quartile_first(col), 3))
        print("Skewness: ", round(skewness_own(col), 3))
        print("Kurtosis: ", round(kurtosis_own(col), 3))
    else:
        # Non-numeric data
        print("Unique Values: ", col.unique())
        print("Value Counts: ")
        print(col.value_counts(normalize=True).round(3))

    print("\n" + "-"*100 + "\n")
```

```
Column: Age
Total data:  2000
Mean:  39.417
Median:  39.0
Mode:  [53]
Variance:  133.584
Standard Deviation:  11.558
Minimum:  20
Maximum:  59
Range:  39
Q1:  30.0
Q2:  39.0
Q3:  49.5
Interquartile Range (IQR):  19.5
Skewness:  -0.005
Kurtosis:  -1.202


--------------------------------------------------------------------------------
--------------------

Column: Income
Total data:  2000
Mean:  4889928.319
Median:  4898900.675
Mode:  [3093456.839129376, 5545445.499981578, 4401808.3739984725,
4606864.577252259, 6956049.081191243, 6267972.350701972, 4639778.386743392,
```

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Standard Deviation: 2010292.263
Minimum: -1088986.526
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Range: 13316478.756
Q1: 3579592.599
Q2: 4898900.675
Q3: 6272831.37
Interquartile Range (IQR): 2693238.772
Skewness: -0.006
Kurtosis: -0.029

Column: Gender
Unique Values: ['Male' 'Female']
Value Counts:
Gender
Female   0.505
Male   0.494
Name: proportion, dtype: float64

Column: Education
Unique Values: ["Bachelor's Degree" "Master's Degree" 'High School' 'PhD'
'Other'

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Value Counts:
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Other                 0.028
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Column: Stress_Level
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Skewness: -0.013
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Column: Exercise_Hours_Per_Week
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Maximum: 26.816
Range: 31.316
Q1: 6.654
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Interquartile Range (IQR): 6.579
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Kurtosis: 0.021

Column: Cholesterol_Level
Total data: 2000

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Standard Deviation: 0.972
Minimum: 196.915
Maximum: 203.162
Range: 6.247
Q1: 199.582
Q2: 200.222
Q3: 200.874
Interquartile Range (IQR): 1.292
Skewness: -0.072
Kurtosis: 0.009

Column: Weight
Total data: 2000
Mean: 70.234
Median: 70.392
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Variance: 103.465
Standard Deviation: 10.172
Minimum: 32.582
Maximum: 109.61
Range: 77.028
Q1: 63.645
Q2: 70.392
Q3: 76.902
Interquartile Range (IQR): 13.257
Skewness: -0.058
Kurtosis: 0.128

Column: Height
Total data: 2000
Mean: 150.731
Median: 150.664
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149.5925957198982, 150.79920970538214, 151.36181688456958, 150.058822252322,

152.95609188397373, 150.47684627821803, 150.60894918871043, 150.60144740973206,
150.9225399270084, 150.7120599751816, 151.06625020305626, 150.24928951012663,
150.70844624290163, 151.24928799447332, 150.35875417017536, 150.2396147558753,
150.20879305460534, 150.90909942001522, 150.90305727138792, 150.2886992715402,
149.9007133676317, 150.95337498387997, 149.89730972748288, 150.7572459720899,
150.11437983693048, 149.82851069074087, 150.58719281668985, 150.82561415408767,
151.27995377099333]
Variance: 0.463
Standard Deviation: 0.68
Minimum: 149.125
Maximum: 153.87
Range: 4.746
Q1: 150.24
Q2: 150.664
Q3: 151.141
Interquartile Range (IQR): 0.901
Skewness: 0.658
Kurtosis: 0.712

Column: Blood_Pressure
Total data: 2000
Mean: 119.682
Median: 119.937
Mode: [0.0]
Variance: 125.409
Standard Deviation: 11.199
Minimum: 0.0
Maximum: 200.95
Range: 200.95
Q1: 113.048
Q2: 119.937
Q3: 126.612
Interquartile Range (IQR): 13.563
Skewness: -1.628
Kurtosis: 18.86

Column: Health_Status
Unique Values: ['Excellent' 'Fair' 'Poor' 'Good']
Value Counts:
Health_Status
Fair   0.260
Poor   0.252

```
Excellent    0.252
Good         0.237
Name: proportion, dtype: float64
```

----

3   FINDING AND HANDLING OUTLIERS

3.0.1   Disini, kita akan menganggap data yang berada diluar rentang Q1 - 1.5IQR dan Q3 + 1.5IQR adalah outliers, kita akan menggunakan bantuan boxplot untuk mencarinya, titik-titik yang berada diluar whiskers (garis yang keluar dari box) adalah outliers.

```python
[11]:  # Blood_Pressure
       blood_pressure_data = data["Blood_Pressure"]
       plt.boxplot(blood_pressure_data, vert=False, patch_artist=True)
       plt.show()
```
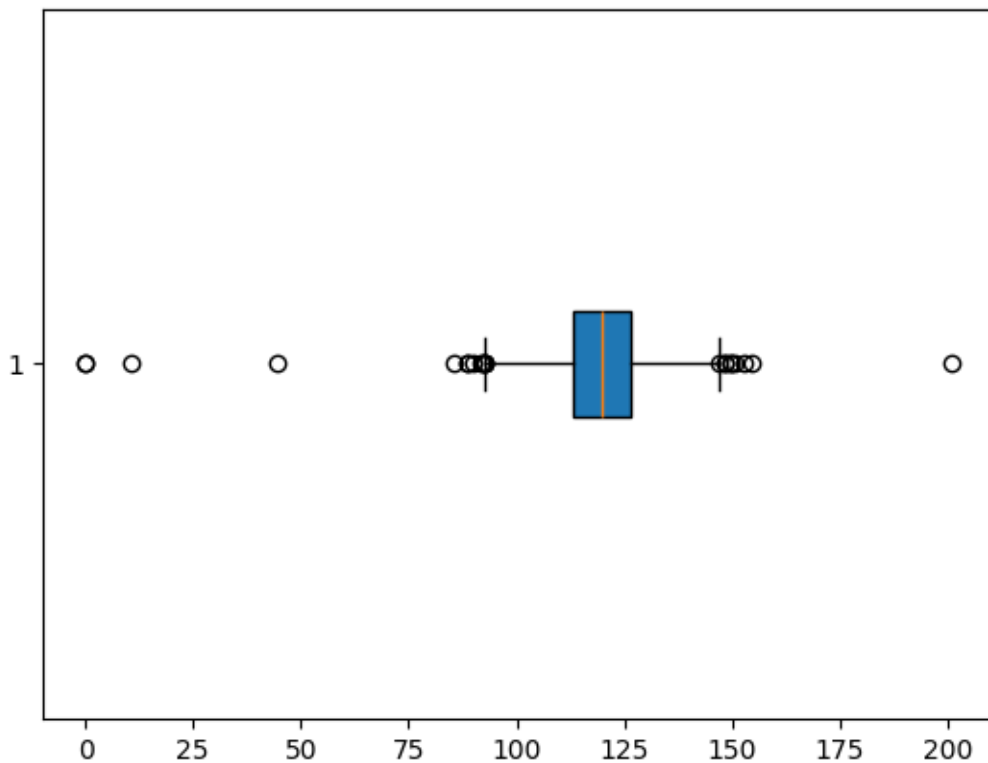


```python
[12]:  # Check for outliers
```

```
outliers_blood_pressure = blood_pressure_data[(blood_pressure_data <␣
 ↪Q1["Blood_Pressure"] - 1.5 * IQR["Blood_Pressure"]) | (blood_pressure_data >␣
 ↪Q3["Blood_Pressure"] + 1.5 * IQR["Blood_Pressure"])]
outliers_blood_pressure
```

[12]: 43   90.027285
       117   85.650116
       192   91.953005
       230   150.635116
       249   148.131915
       316   0.000000
       323   148.158032
       417   92.692620
       526   149.568502
       617   10.780000
       715   149.463928
       924   88.578819
       1123   147.048143
       1223   88.665138
       1230   152.643476
       1421   92.479926
       1507   92.114951
       1551   0.000000
       1643   44.450000
       1696   154.427656
       1807   92.561036
       1920   200.950000
       Name: Blood_Pressure, dtype: float64

Disini terlihat bahwa kolom Blood Pressure juga memiliki outliers sehingga perlu diteliti lebih
lanjut.

[13]:
```
# Remove outliers
data = data.drop(outliers_blood_pressure.index)
```

[14]:
```
plt.boxplot(data["Blood_Pressure"], vert=False, patch_artist=True)
plt.show()
```
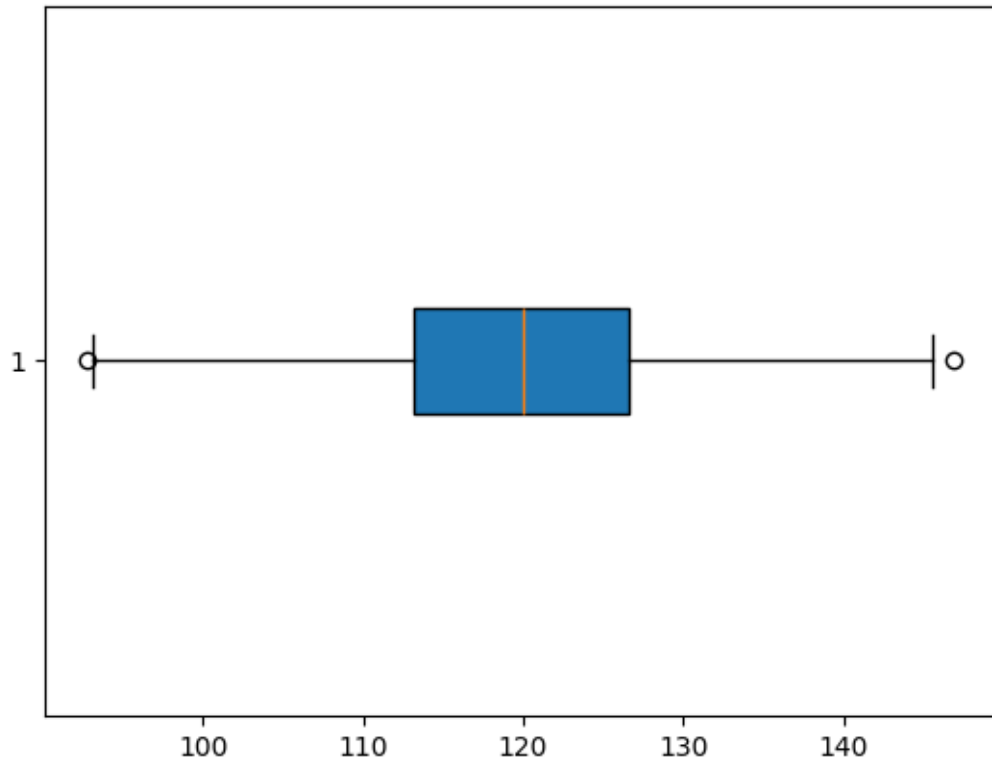
Berdasarkan data pada https://www.heart.org/en/health-topics/high-blood-pressure/understanding-blood-pressure-readings, walaupun masih ada outliers, tetapi outliers tersebut masih dalam batas wajar sehingga tidak perlu ditangani lebih lanjut.

```
[15]: # Age
      age_data = data["Age"]
      plt.boxplot(age_data, vert=False, patch_artist=True)
      plt.show()
```
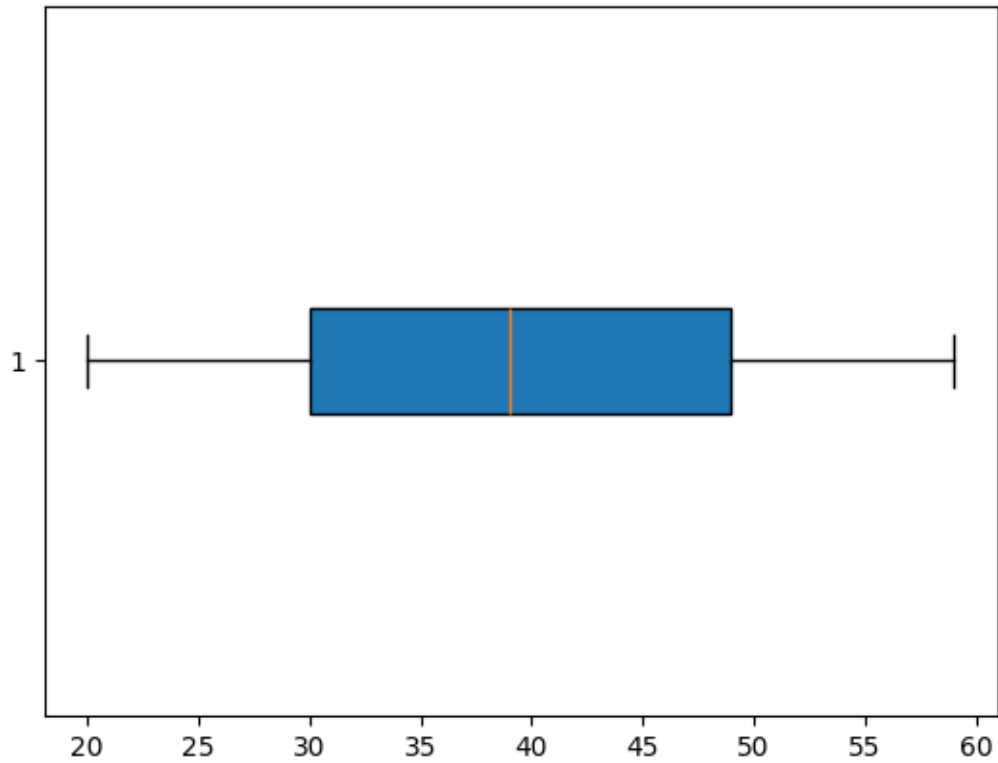
Karena tidak ada titik titik diluar whiskers, maka kolom age aman dari outliers

```
[16]: # Income
      income_data = data["Income"]
      plt.boxplot(income_data, vert=False, patch_artist=True)
      plt.show()
```
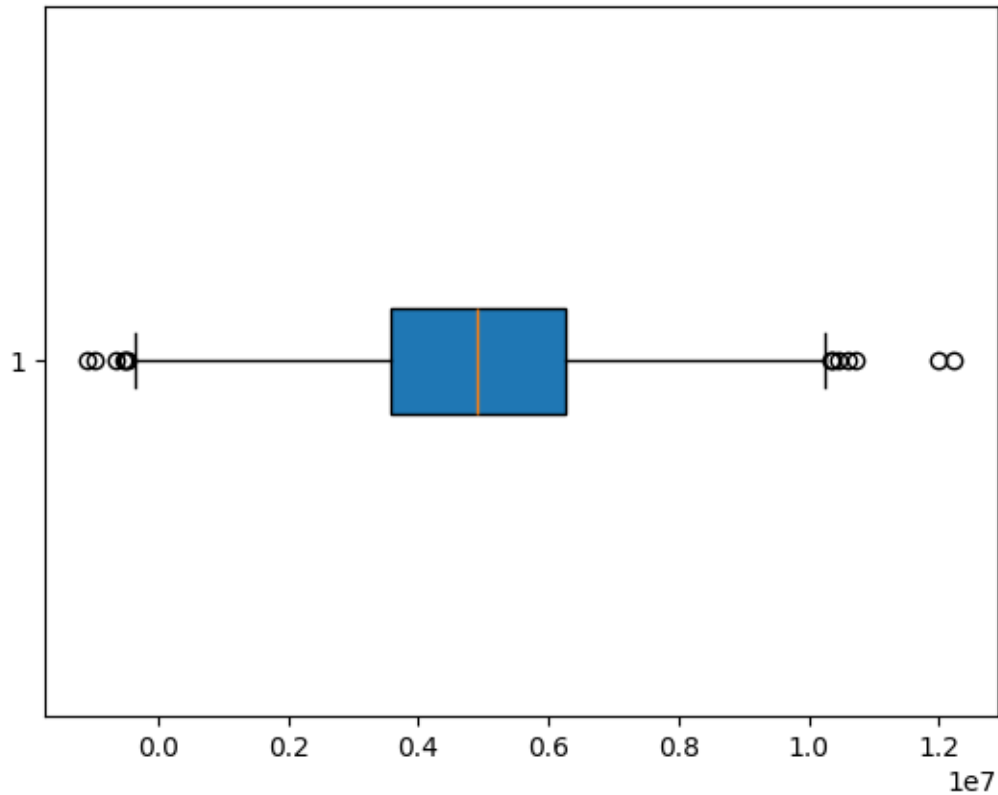
Disini terlihat kolom data income memiliki banyak outlier sehingga data tersebut perlu di cek lebih lanjut.

Dari boxplot tersebut, ada income yang bernilai negatif yang jelas hal ini tidak masuk akal sehingga untuk menangani ini, kita perlu membatasi income minimum adalah 0.

```
[17]: outliers_income = income_data[(income_data < Q1["Income"] - 1.5 *␣
       ↪IQR["Income"]) | (income_data > Q3["Income"] + 1.5 * IQR["Income"])]
      outliers_income
```

```
[17]: 102     -5.235745e+05
      453     -6.372663e+05
      514     -4.944103e+05
      579      1.044300e+07
      673      1.060307e+07
      835     -4.719274e+05
      892     -9.677291e+05
      1328     1.222749e+07
      1460     1.036827e+07
      1686     1.198891e+07
      1697    -1.088987e+06
      1947     1.073412e+07
```

```
1948    1.034308e+07
Name: Income, dtype: float64
```

[18]:
```python
# Tampilkan data yang memiliki nilai income negatif
outliers_income_negatif = outliers_income[outliers_income < 0]
outliers_income_negatif
```

[18]:
```
102    -5.235745e+05
453    -6.372663e+05
514    -4.944103e+05
835    -4.719274e+05
892    -9.677291e+05
1697   -1.088987e+06
Name: Income, dtype: float64
```

[19]:
```python
# Replace negative income with 0, use loc to avoid warning message
data.loc[data["Income"] < 0, "Income"] = 0
```

[20]:
```python
data[data["Income"] < 0]
```

[20]:
```
Empty DataFrame
Columns: [Age, Income, Gender, Education, Stress_Level, Exercise_Hours_Per_Week,
Cholesterol_Level, Weight, Height, Blood_Pressure, Health_Status]
Index: []
```

[21]:
```python
plt.boxplot(income_data, vert=False, patch_artist=True)
```

[21]:
```
{'whiskers': [<matplotlib.lines.Line2D at 0x26d0d004fb0>,
  <matplotlib.lines.Line2D at 0x26d0d005490>],
 'caps': [<matplotlib.lines.Line2D at 0x26d0d006360>,
  <matplotlib.lines.Line2D at 0x26d0d0068a0>],
 'boxes': [<matplotlib.patches.PathPatch at 0x26d7ff35ee0>],
 'medians': [<matplotlib.lines.Line2D at 0x26d0d0060c0>],
 'fliers': [<matplotlib.lines.Line2D at 0x26d0d0074d0>],
 'means': []}
```
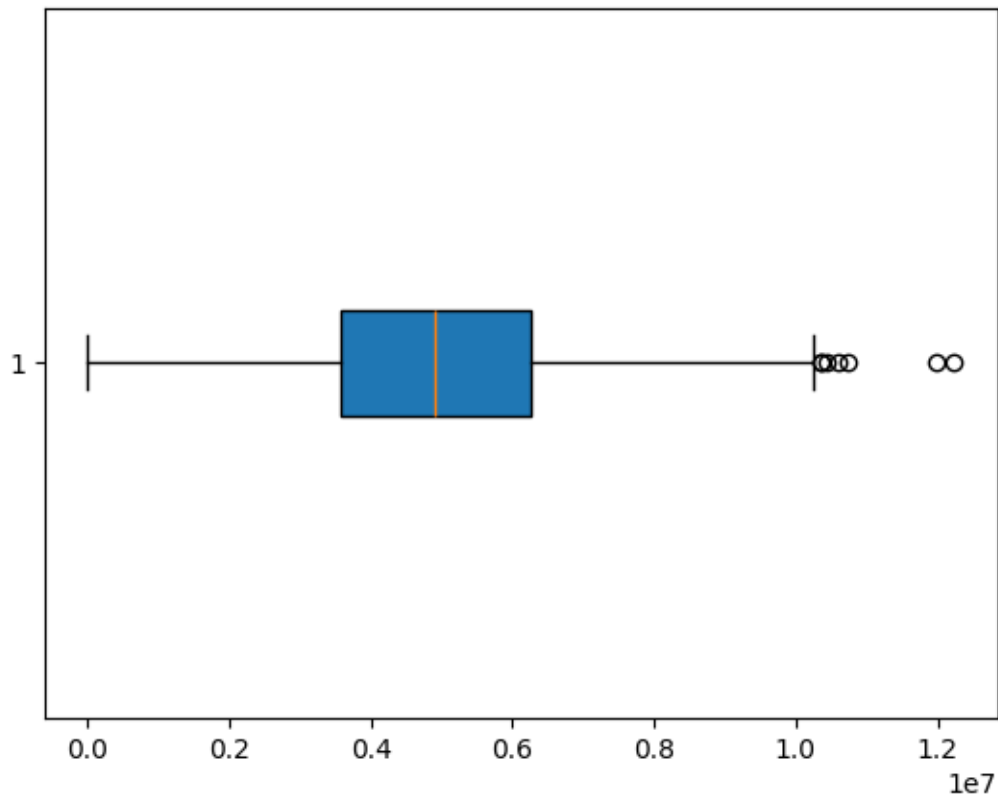
Disini, income yang negatif sudah di set ke 0. Untuk income yang melebihi Q3 + 1.5IQR, hal tersebut mungkin saja terjadi sehingga tidak diperlukan perubahan untuk outliers yang bernilai > Q3 +1.5IQR.

```
[22]: # Stress level
      stress_level_data = data["Stress_Level"]
      plt.boxplot(stress_level_data, vert=False, patch_artist=True)
      plt.show()
```
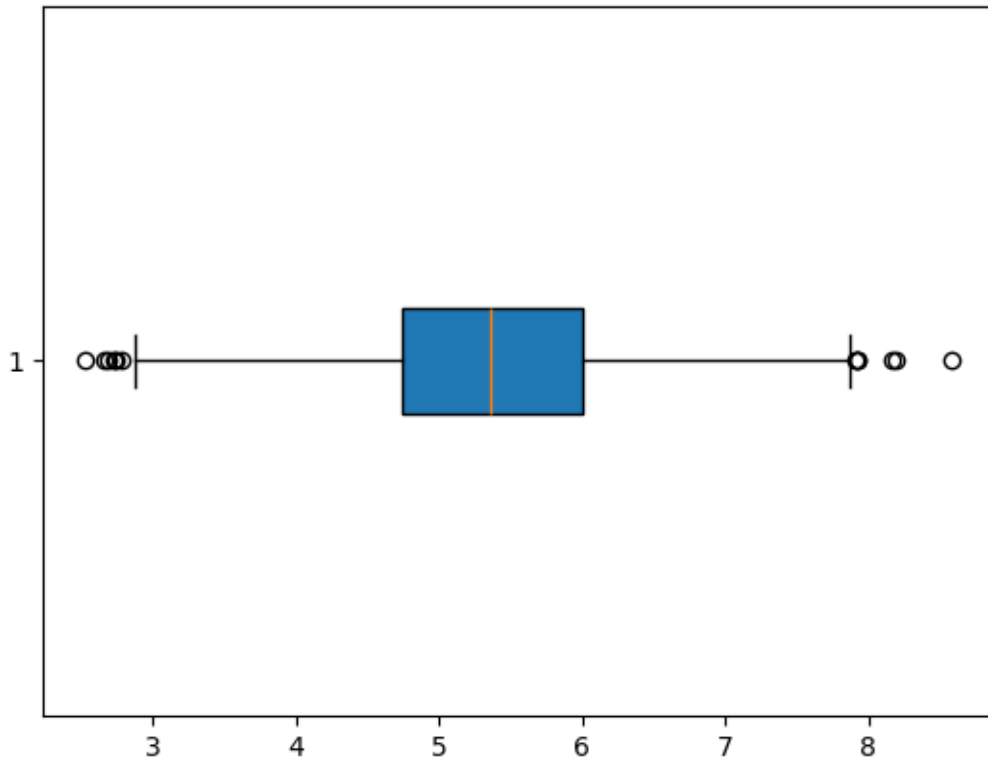
Disini terlihat bahwa kolom stress level juga memiliki outliers sehingga perlu diteliti lebih lanjut.

```
[23]: outliers_stress_level = stress_level_data[(stress_level_data <␣
      ↪Q1["Stress_Level"] - 1.5 * IQR["Stress_Level"]) | (stress_level_data >␣
      ↪Q3["Stress_Level"] + 1.5 * IQR["Stress_Level"])]
      outliers_stress_level
```

```
[23]: 13      2.528057
      170     8.191571
      201     7.908383
      240     2.661764
      306     7.916607
      393     7.927514
      1089    2.782488
      1196    8.168885
      1210    2.728318
      1433    8.581327
      1519    2.745202
      1640    2.686308
      Name: Stress_Level, dtype: float64
```

Dengan asumsi bahwa stress level berada pada interval 1-10, maka data diatas masih masuk dalam kategori wajar sehingga tidak perlu ditangani lebih lanjut

```
[24]:   # Exercise_Hours_Per_Week
        exercise_hours_per_week_data = data["Exercise_Hours_Per_Week"]
        plt.boxplot(exercise_hours_per_week_data, vert=False, patch_artist=True)
        plt.show()
```
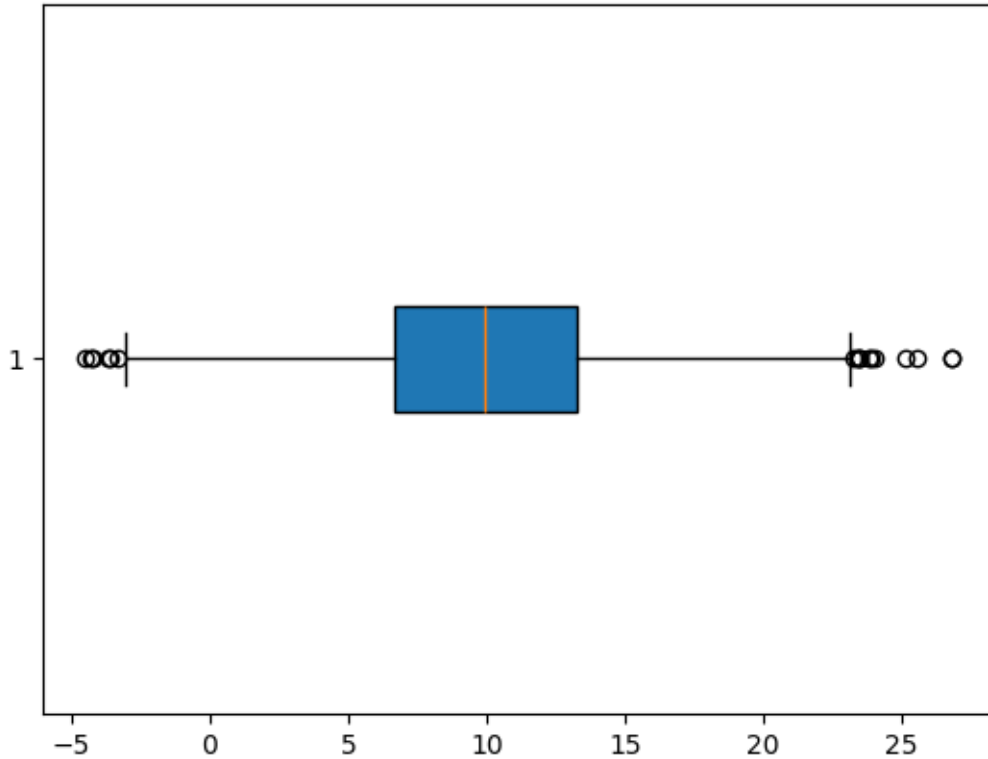

Disini terlihat bahwa kolom Exercise Hours Per Week juga memiliki outliers sehingga perlu diteliti
lebih lanjut.

```
[25]:   # Check outliers
        outliers_exercise = exercise_hours_per_week_data[(exercise_hours_per_week_data␣
         ↪< Q1["Exercise_Hours_Per_Week"] - 1.5 * IQR["Exercise_Hours_Per_Week"]) |␣
         ↪(exercise_hours_per_week_data > Q3["Exercise_Hours_Per_Week"] + 1.5 *␣
         ↪IQR["Exercise_Hours_Per_Week"])]
        outliers_exercise
```

```
[25]:   48       24.033132
        180      25.530543
        278      -3.632656
        330      -4.499310
        452      23.463102
        479      23.506893
        580      -4.247733
```

```
644      23.269785
893      23.103693
1056     -3.645436
1147     23.883280
1284     26.816358
1599     -3.343693
1677     26.795926
1706     -4.298969
1784     23.432592
1788     25.146327
1853     23.794101
Name: Exercise_Hours_Per_Week, dtype: float64
```

[26]:
```python
# Check for negative values
negatif_exercise = exercise_hours_per_week_data[exercise_hours_per_week_data <
 ↪0]
negatif_exercise
```

[26]:
```
35      -1.927087
53      -0.432964
75      -0.309098
101     -0.950271
162     -3.063739
193     -1.552585
235     -0.064111
258     -0.273152
264     -0.392170
273     -0.764312
276     -0.352699
278     -3.632656
291     -0.342537
328     -2.077250
330     -4.499310
339     -0.757945
366     -1.905777
580     -4.247733
660     -1.218878
742     -0.490524
1056    -3.645436
1068    -0.950923
1143    -1.271801
1176    -1.300274
1207    -1.442528
1211    -0.942582
1250    -2.636253
1293    -2.501845
1319    -0.141838
```

```
1544   -1.669836
1545   -0.379740
1599   -3.343693
1623   -2.688027
1671   -1.207635
1699   -0.804646
1706   -4.298969
1708   -0.325989
1760   -1.326430
1835   -2.636172
1992   -0.954750
1993   -2.087057
Name: Exercise_Hours_Per_Week, dtype: float64
```

[27]:
```python
# Change negative values to 0
data.loc[data["Exercise_Hours_Per_Week"] < 0, "Exercise_Hours_Per_Week"] = 0
```

[28]:
```python
data[data["Exercise_Hours_Per_Week"] < 0]
```

[28]:
```
Empty DataFrame
Columns: [Age, Income, Gender, Education, Stress_Level, Exercise_Hours_Per_Week,
Cholesterol_Level, Weight, Height, Blood_Pressure, Health_Status]
Index: []
```

[29]:
```python
plt.boxplot(exercise_hours_per_week_data, vert=False, patch_artist=True)
```

[29]:
```
{'whiskers': [<matplotlib.lines.Line2D at 0x26d0f3b0260>,
  <matplotlib.lines.Line2D at 0x26d0f3b0530>],
 'caps': [<matplotlib.lines.Line2D at 0x26d0f3b0710>,
  <matplotlib.lines.Line2D at 0x26d0f3b0a10>],
 'boxes': [<matplotlib.patches.PathPatch at 0x26d0f384110>],
 'medians': [<matplotlib.lines.Line2D at 0x26d0f3b0cb0>],
 'fliers': [<matplotlib.lines.Line2D at 0x26d0f3b0f20>],
 'means': []}
```
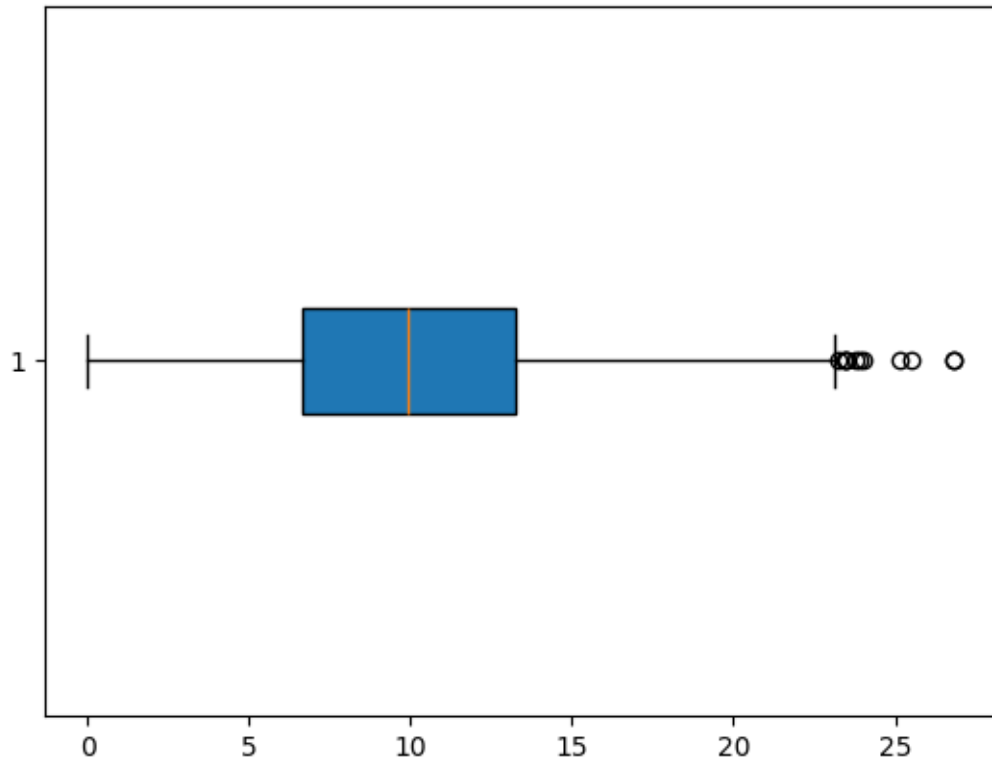
Disini, exercise hour per week yang negatif sudah di set ke 0. Untuk exercise hour per week yang melebihi Q3 + 1.5IQR, hal tersebut mungkin saja terjadi (masih masuk akal dalam seminggu) sehingga tidak diperlukan perubahan untuk outliers yang bernilai > Q3 +1.5IQR.

[30]:
```python
# Cholesterol_Level
cholesterol_level_data = data["Cholesterol_Level"]
plt.boxplot(cholesterol_level_data, vert=False, patch_artist=True)
plt.show()
```
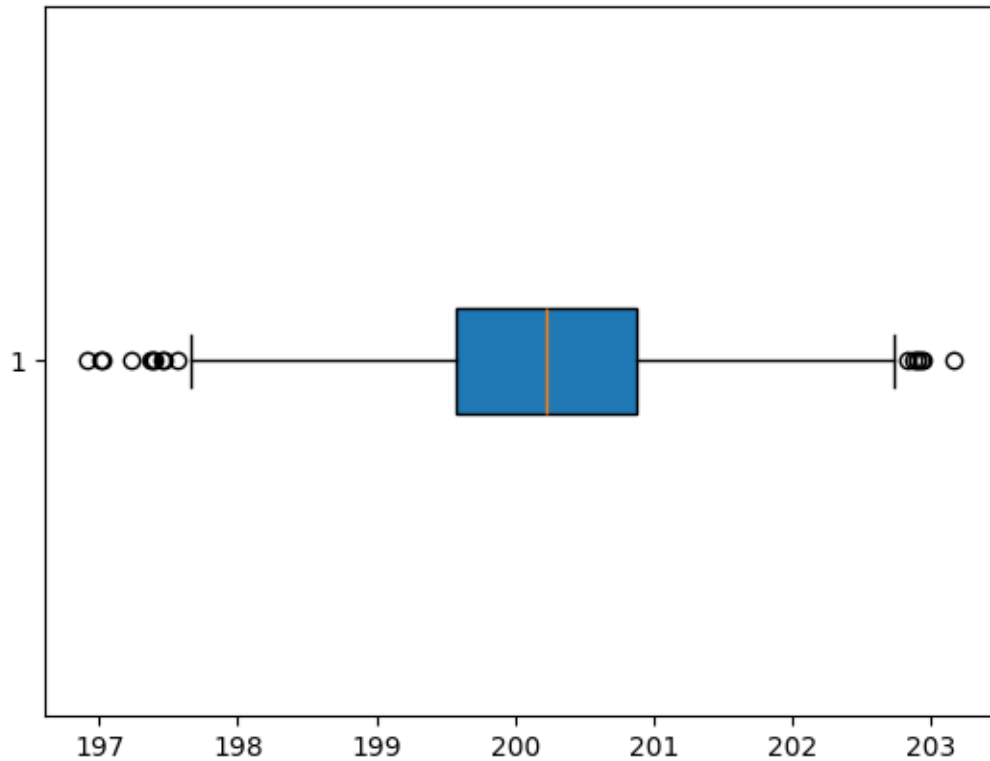
Disini terlihat bahwa kolom Cholesterol level juga memiliki outliers sehingga perlu diteliti lebih lanjut. Namun, berdasarkan artikel pada https://www.healthline.com/health/high-cholesterol/levels-by-age#:~:text=Recommended%20total%20cholesterol%20levels%20are%20under%20200%20milligrams,of%20the%2 level normal kolesterol adalah < 200 sehingga semua outlier diatas masih bisa dibilang data yang wajar.

```python
[31]: # Weight
      weight_data = data["Weight"]
      plt.boxplot(weight_data, vert=False, patch_artist=True)
      plt.show()
```
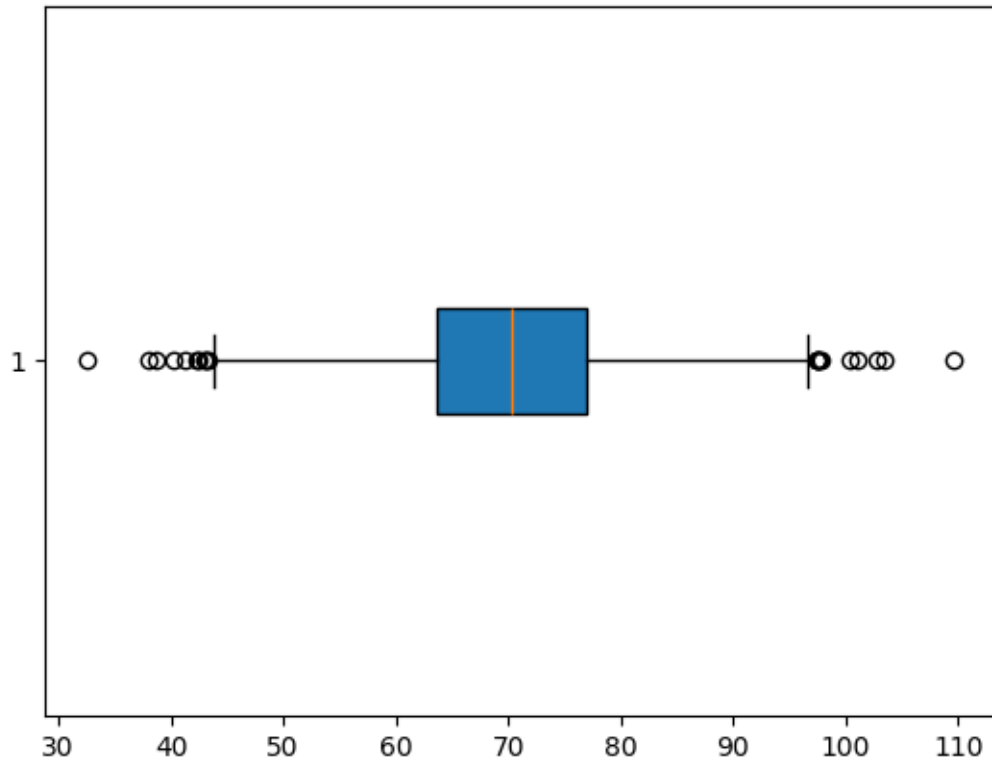
Disini terlihat bahwa kolom Weight juga memiliki outliers sehingga perlu diteliti lebih lanjut.

```
[32]: outliers_weight = weight_data[(weight_data < Q1["Weight"] - 1.5 *␣
       ↪IQR["Weight"]) | (weight_data > Q3["Weight"] + 1.5 * IQR["Weight"])]
      outliers_weight
```

```
[32]: 236     109.609562
      305     103.488182
      397      43.210014
      506     102.708167
      711     100.333305
      747      40.210278
      779      42.428906
      818      42.271182
      887      97.577311
      986      43.381050
      1036     32.581758
      1053     97.444777
      1481     38.022481
      1555     38.666547
      1595     97.456489
      1626     97.474679
```

```
1649    100.976404
1904     41.274350
1948     97.861295
1991     42.931331
Name: Weight, dtype: float64
```

Karena berat badan pada bagian outlier masih merupakan berat badan yang mungkin bagi manusia,
maka outliers tersebut tidak perlu ditangani lebih lanjut.

[33]:
```python
# Height
height_data = data["Height"]
plt.boxplot(height_data, vert=False, patch_artist=True)
plt.show()
```
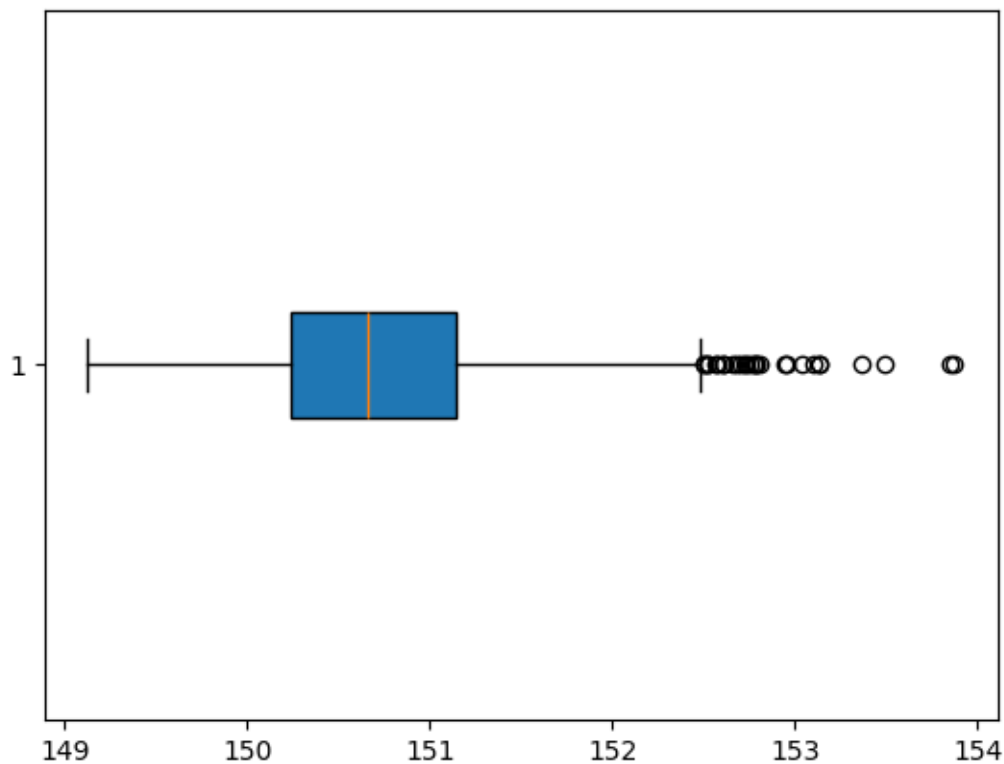

Disini terlihat bahwa kolom Height juga memiliki outliers sehingga perlu diteliti lebih lanjut. Na-
mun, outliers pada data tersebut masih terbilang wajar untuk menyatakan tinggi manuasia sehingga
tidak diperlukan penanganan lebih lanjut.

3.1 1. Blood Pressure

```
[34]: plt.hist(data["Blood_Pressure"], bins=30, rwidth=0.5)
      plt.show()
      print (data["Blood_Pressure"].skew())
      print (data["Blood_Pressure"].kurtosis())
      stat, p = normaltest(data["Blood_Pressure"])
      print('Statistics=%.3f, p=%.3f' % (stat, p))
```
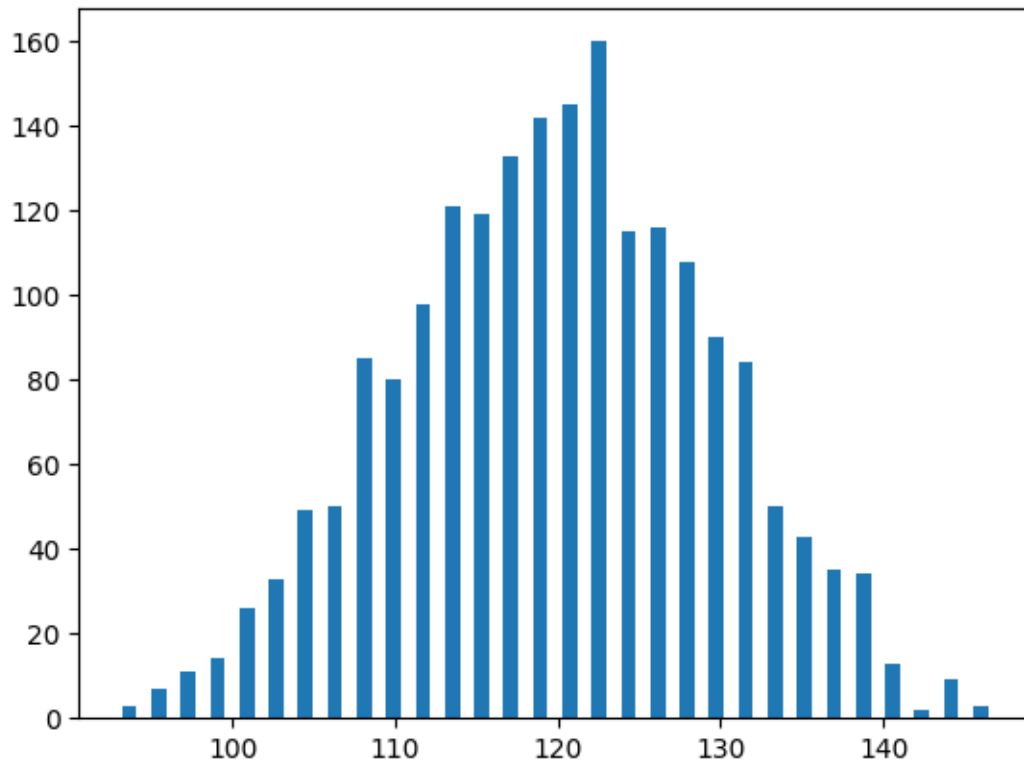


```
-0.03221883639967124
-0.34094189985379897
Statistics=14.132, p=0.001
```

3.1.1 Jika kita tinjau dari skewness, maka data terdistribusi normal karena nilai skwenessnya mnedekati 0, tetapi jika kita menguji menggunakan kurtosis (kelancipan dari fdp), data tidak terdistribusi normal karena nilai kurtosisnya jauh dari 3. Jika kita menggunakan uji normal dengan bantuan library normaltest, diperoleh hasil p-value 0.001, karena p-value < 0.05 (nilai alpha), dapat disimpulkan data tidak terdistribusi normal.

3.2   2. Gender

```python
# Gender distribution
gender_data = data['Gender']
counts, bins, patches = plt.hist(gender_data, bins=2, rwidth=0.85)

# Menentukan label untuk setiap bin
bin_centers = 0.5 * np.diff(bins) + bins[:-1] # titik tengah bin
labels = ['Male', 'Female'] # label untuk setiap bin

plt.xticks(bin_centers, labels)  # menetapkan label pada titik tengah bin
plt.show()
```
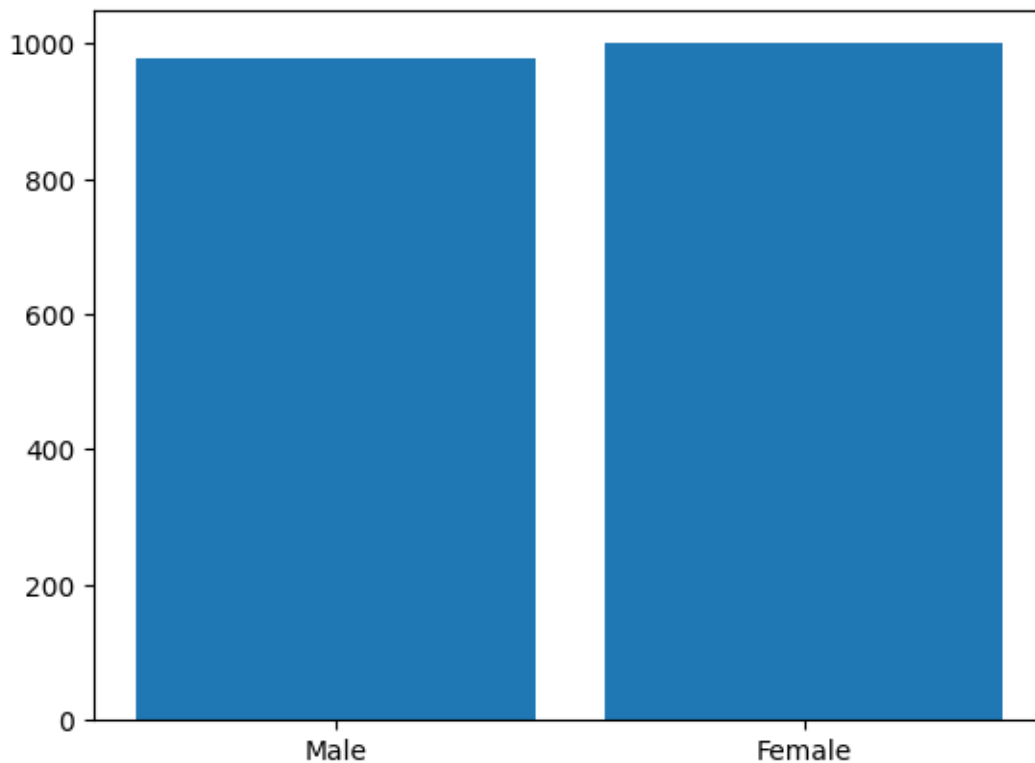
3.3 3. Education

```
[36]: # Education distribution
      education_data = data['Education']
      counts, bins, patches = plt.hist(education_data, bins=6, rwidth=0.5)

      # Menentukan label untuk setiap bin
      bin_centers = 0.5 * np.diff(bins) + bins[:-1]   # titik tengah bin
      labels = ['Master\'s Degree','Bachelor\'s Degree', 'PhD', 'High School',␣
       ↪'unknown', 'Other']   # label untuk setiap bin

      plt.xticks(bin_centers, labels)   # menetapkan label pada titik tengah bin

      plt.show()
```
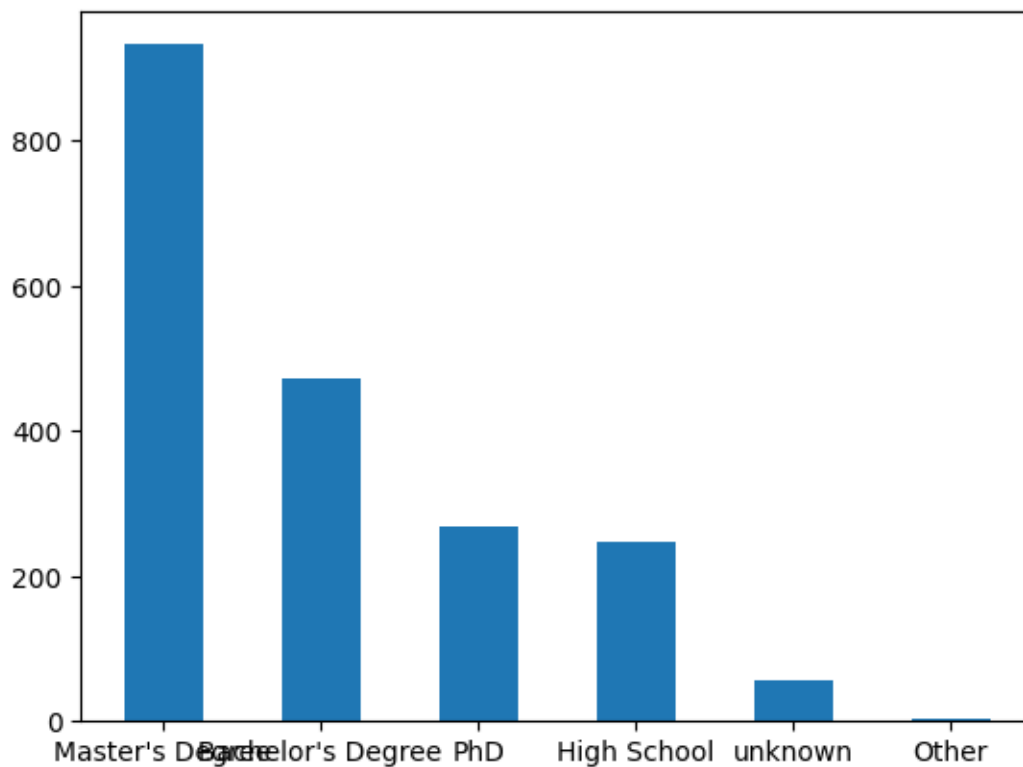

3.4 4. Age

```
[37]: # Age distribution
      plt.hist(data["Age"], bins=20, rwidth=0.5)
      plt.show()

      print (data["Age"].skew())
```

```
print (data["Age"].kurtosis())
stat, p = normaltest(data["Age"])
print('Statistics=%.3f, p=%.3f' % (stat, p))
```
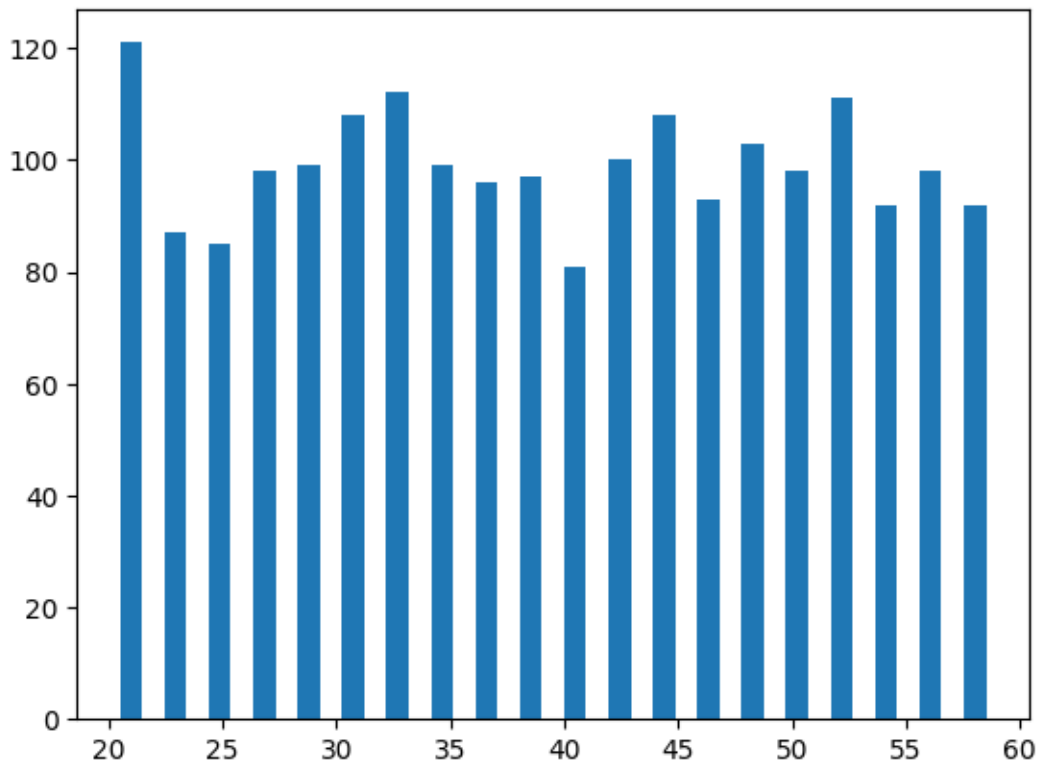


```
-0.0036696560729577701
-1.1995106304725915
Statistics=1580.199, p=0.000
```
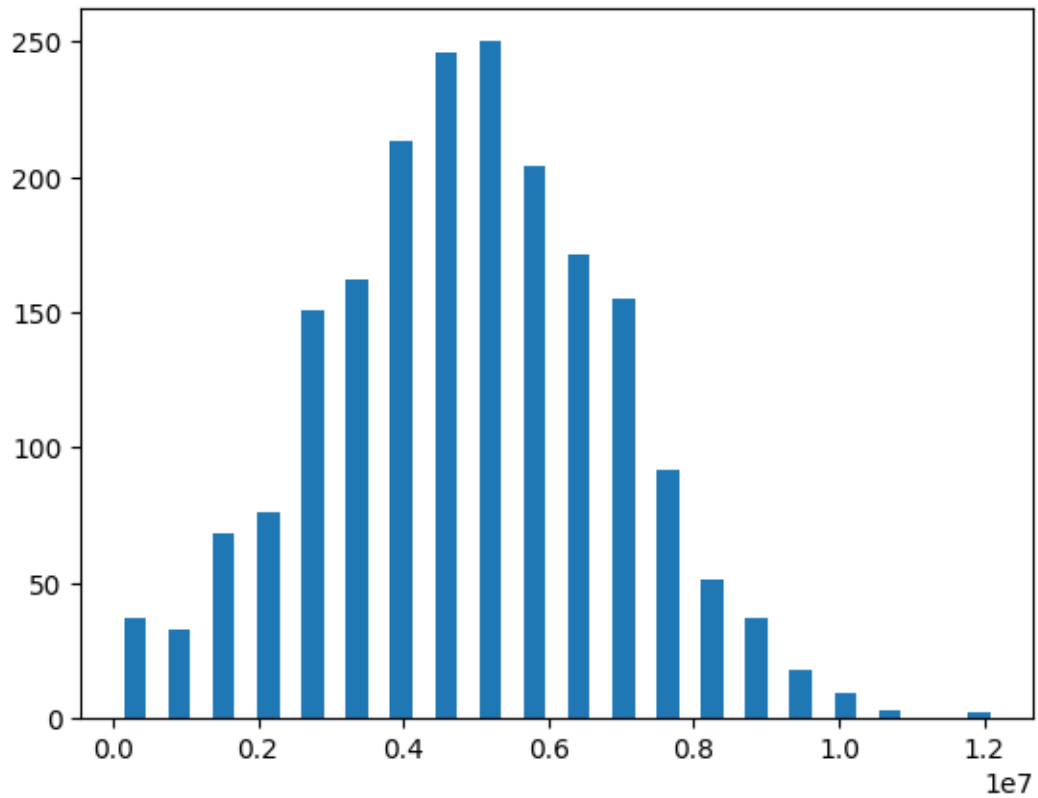
3.4.1 Jika kita tinjau dari skewness, maka data terdistribusi normal karena nilai skwenessnya mnedekati 0, tetapi jika kita menguji menggunakan kurtosis (ke-lancipan dari fdp), data tidak terdistribusi normal karena nilai kurtosisnya jauh dari 3. Jika kita menggunakan uji normal dengan bantuan library normaltest, diperoleh hasil p-value 0.000, karena p-value < 0.05 (nilai alpha), dapat di-simpulkan data tidak terdistribusi normal. Dan data juga terlihat terdistribusi uniform.

3.5 5. Income

[38]:
```
# Income distribution
plt.hist(data["Income"], bins=20, rwidth=0.5)
plt.show()

print (data["Income"].skew())
```

```python
kurt = data["Income"].kurtosis()
excess_kurt = kurt - 3
print (excess_kurt)
stat, p = normaltest(data["Income"])
print('Statistics=%.3f, p=%.3f' % (stat, p))
```


0.016751269910332222
-3.0736705938092954
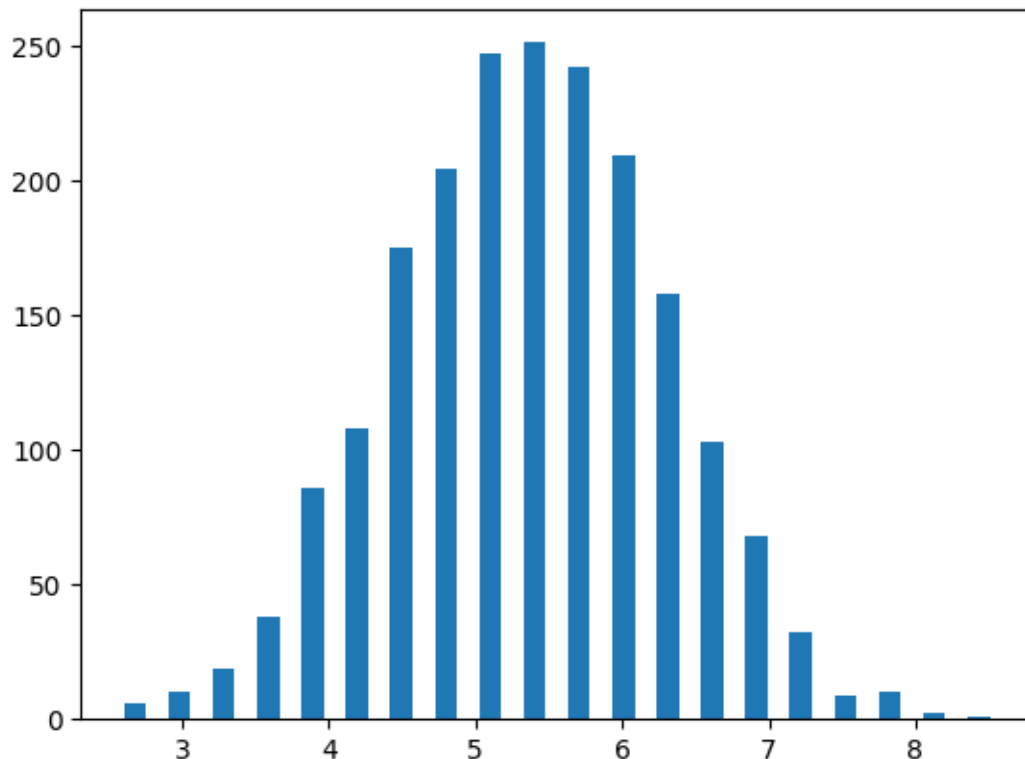Statistics=0.508, p=0.776

3.5.1 Jika kita tinjau dari skewness, maka data terdistribusi normal karena nilai skwenessnya mnedekati 0, tetapi jika kita menguji menggunakan kurtosis (kelancipan dari fdp), data tidak terdistribusi normal karena nilai kurtosisnya jauh dari 3. Jika kita menggunakan uji normal dengan bantuan library normaltest, diperoleh hasil p-value 0.776, karena p-value $>$ 0.05 (nilai alpha), dapat disimpulkan data terdistribusi normal.

3.6 6. Stress Level

```python
# Stress level distribution
plt.hist(data["Stress_Level"], bins=20, rwidth=0.5)
plt.show()

print (data["Stress_Level"].skew())
print (data["Stress_Level"].kurtosis())
stat, p = normaltest(data["Stress_Level"])
print('Statistics=%.3f, p=%.3f' % (stat, p))
```
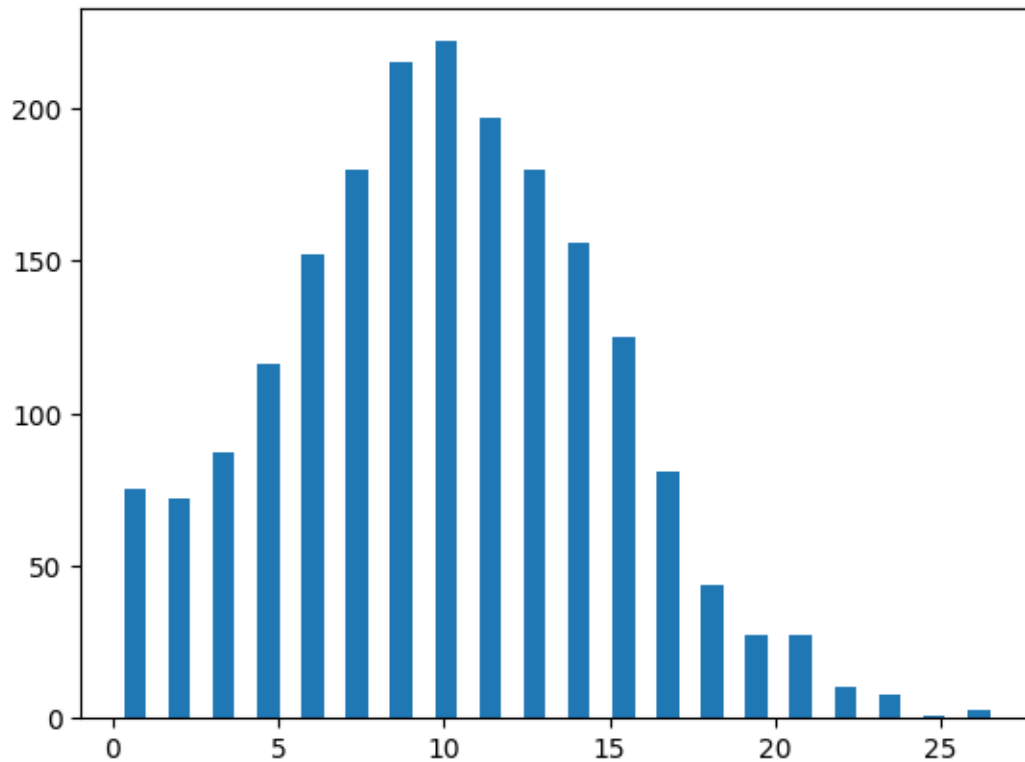


```
-0.01783091456783804
-0.12406333384333745
Statistics=1.436, p=0.488
```

3.6.1 **Jika kita tinjau dari skewness, maka data terdistribusi normal karena nilai skwenessnya mnedekati 0, tetapi jika kita menguji menggunakan kurtosis (kelancipan dari fdp), data tidak terdistribusi normal karena nilai kurtosisnya jauh dari 3. Jika kita menggunakan uji normal dengan bantuan library normaltest, diperoleh hasil p-value 0.488, karena p-value > 0.05 (nilai alpha), dapat disimpulkan data terdistribusi normal.**

3.7   7. Exercise Hours per Week

```python
[40]:  # Cholesterol level distribution
       plt.hist(data["Exercise_Hours_Per_Week"], bins=20, rwidth=0.5)
       plt.show()

       print (data["Exercise_Hours_Per_Week"].skew())
       print (data["Exercise_Hours_Per_Week"].kurtosis())
       stat, p = normaltest(data["Exercise_Hours_Per_Week"])
       print('Statistics=%.3f, p=%.3f' % (stat, p))
```
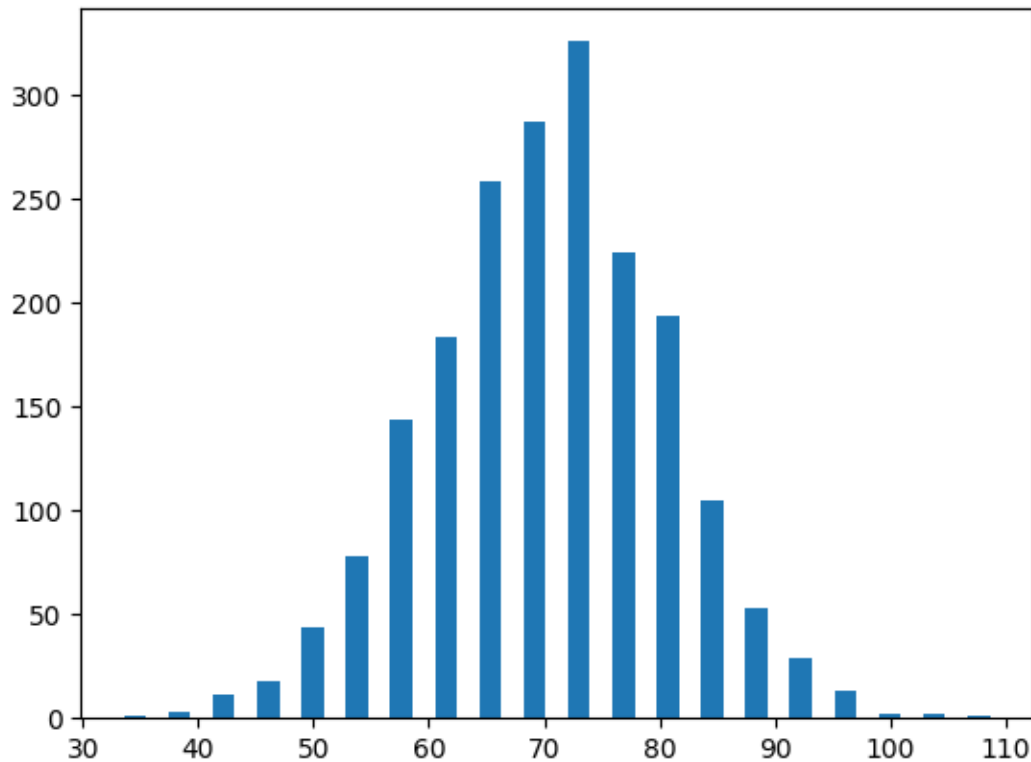


```
0.1525871203236051
-0.15376819384934848
Statistics=9.786, p=0.007
```

3.7.1 **Jika kita tinjau dari skewness, maka data terdistribusi normal karena nilai skwenessnya mnedekati 0, tetapi jika kita menguji menggunakan kurtosis (kelancipan dari fdp), data tidak terdistribusi normal karena nilai kurtosisnya jauh dari 3. Jika kita menggunakan uji normal dengan bantuan library normaltest, diperoleh hasil p-value 0.523, karena p-value > 0.05 (nilai alpha), dapat disimpulkan data terdistribusi normal.**

3.8   8. Weight

```
[41]: # Weight distribution
      plt.hist(data["Weight"], bins=20, rwidth=0.5)
      plt.show()

      print (data["Weight"].skew())
      print (data["Weight"].kurtosis())
      stat, p = normaltest(data["Weight"])
      print('Statistics=%.3f, p=%.3f' % (stat, p))
```



```
-0.055145554642524186
0.11260679516068262
Statistics=2.065, p=0.356
```

3.8.1 Jika kita tinjau dari skewness, maka data terdistribusi normal karena nilai skwenessnya mnedekati 0, tetapi jika kita menguji menggunakan kurtosis (kelancipan dari fdp), data tidak terdistribusi normal karena nilai kurtosisnya jauh dari 3. Jika kita menggunakan uji normal dengan bantuan library normaltest, diperoleh hasil p-value 0.356, karena p-value > 0.05 (nilai alpha), dapat disimpulkan data terdistribusi normal.

3.9 9. Height

```python
# Height distribution
plt.hist(data["Height"], bins=20, rwidth=0.5)
plt.show()

print (data["Height"].skew())
print (data["Height"].kurtosis())
stat, p = normaltest(data["Height"])
print('Statistics=%.3f, p=%.3f' % (stat, p))
```
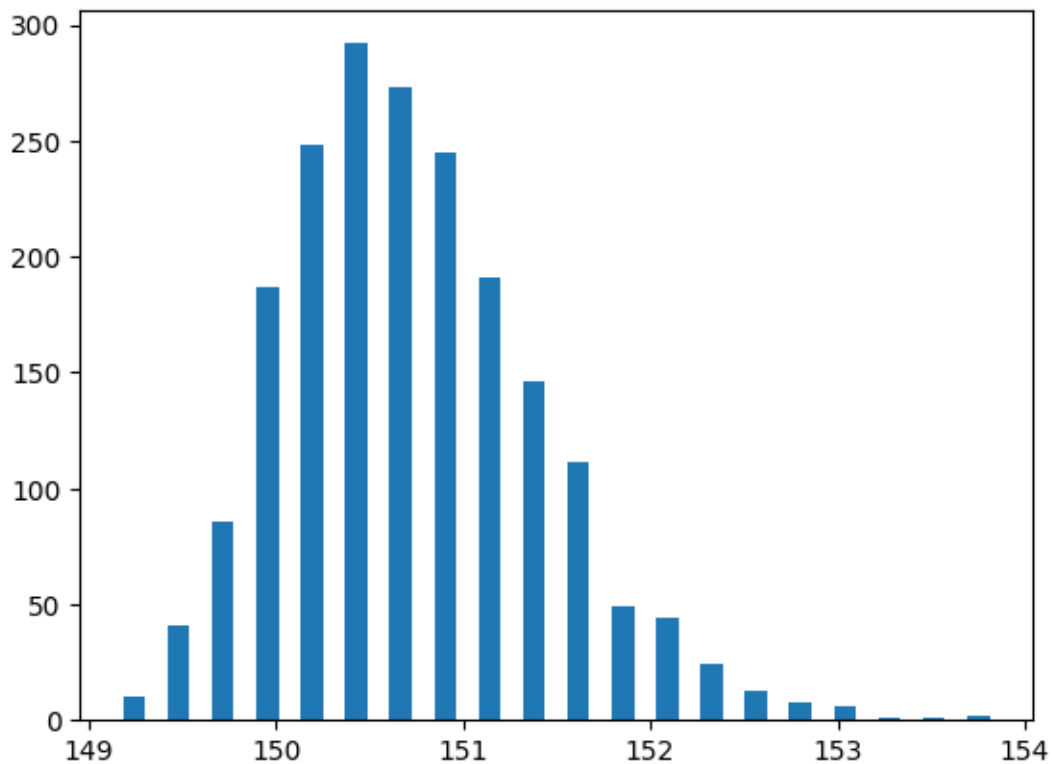


```
0.6555089940792477
0.7091281485649175
Statistics=143.721, p=0.000
```

3.9.1 Jika kita tinjau dari skewness, maka data tidak terdistribusi normal karena nilai skewnessnya jauh dari 0, tetapi jika kita menguji menggunakan kurtosis (kelancipan dari fdp), data tidak terdistribusi normal karena nilai kurtosisnya jauh dari 3. Jika kita menggunakan uji normal dengan bantuan library normaltest, diperoleh hasil p-value 0.000, karena p-value < 0.05 (nilai alpha), dapat disimpulkan data tidak terdistribusi normal. Karena nilai skew positif, maka data ini memiliki distribusi right-skeewed.
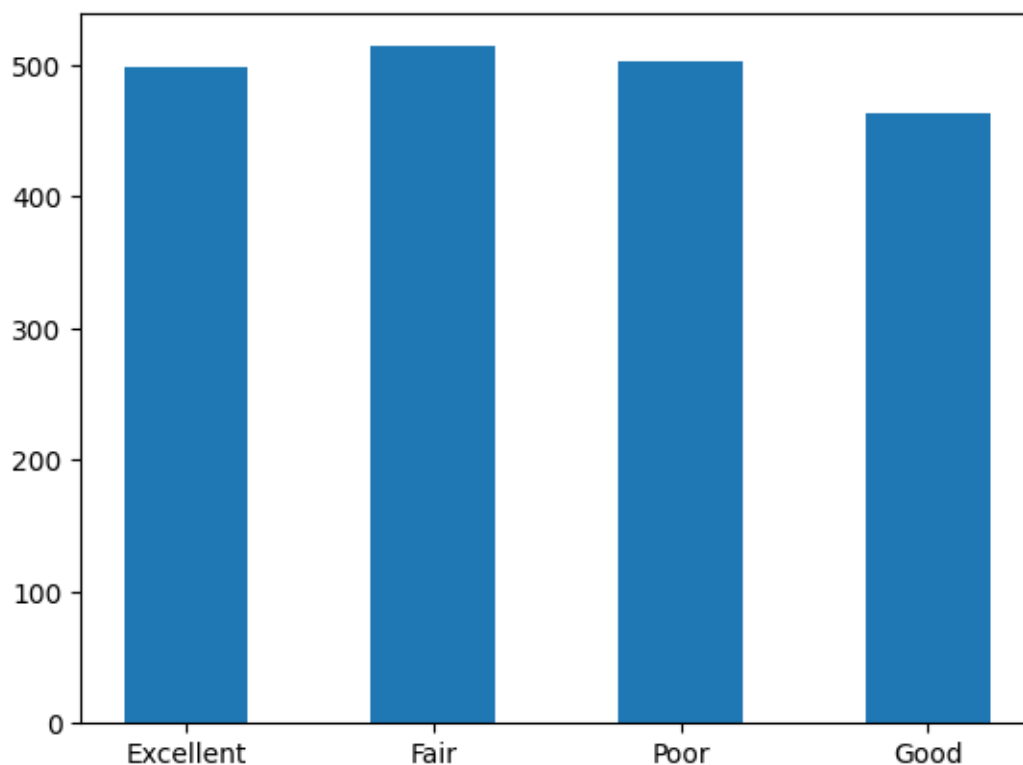
3.10 10. Health Status

```python
# Health Status
health_status_data_data = data['Health_Status']
counts, bins, patches = plt.hist(health_status_data_data, bins=4, rwidth=0.5)

# Menentukan label untuk setiap bin
bin_centers = 0.5 * np.diff(bins) + bins[:-1]   # titik tengah bin

plt.xticks(bin_centers)   # menetapkan label pada titik tengah bin

plt.show()
```

3.11 11. Cholesterol Level

```
[44]:  # Cholesterol Level
       cholesterol_level_data = data['Cholesterol_Level']
       counts, bins, patches = plt.hist(cholesterol_level_data, bins=20, rwidth=0.5)
       print (data["Cholesterol_Level"].skew())
       print (data["Cholesterol_Level"].kurtosis())
       stat, p = normaltest(data["Cholesterol_Level"])
       print('Statistics=%.3f, p=%.3f' % (stat, p))
       plt.show()
```

-0.06927019917155477
0.011699808555181157
Statistics=1.613, p=0.446
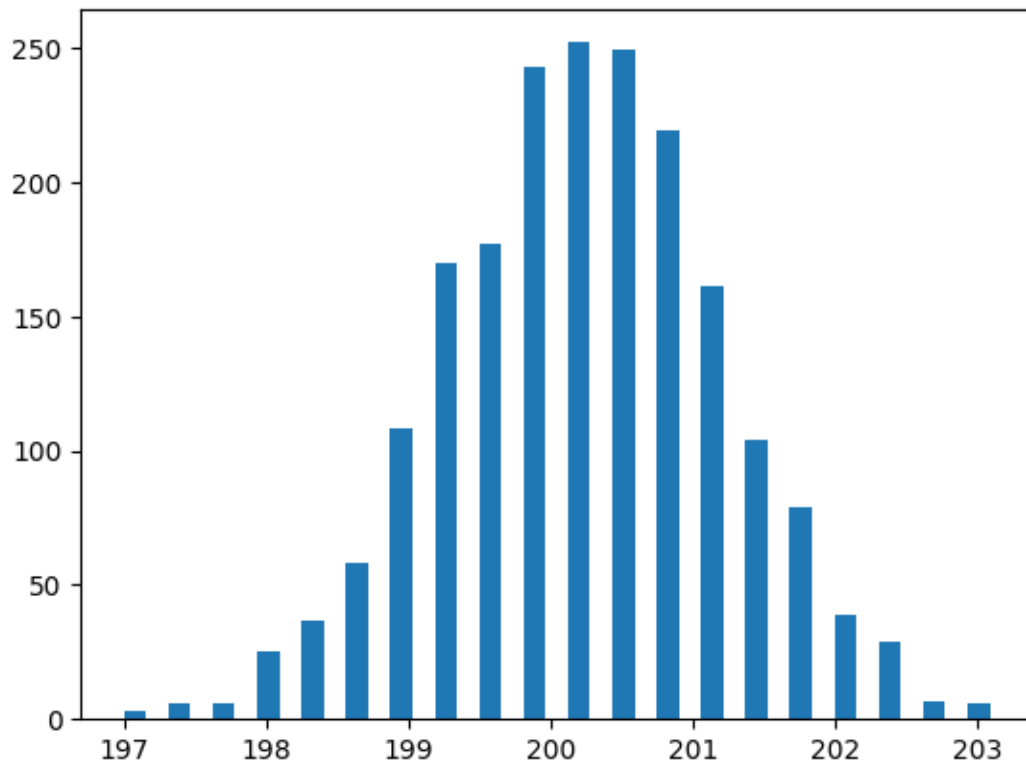
3.11.1 Jika kita tinjau dari skewness, maka data terdistribusi normal karena nilai skewnessnya mendekati 0, tetapi jika kita menguji menggunakan kurtosis (kelancipan dari fdp), data tidak terdistribusi normal karena nilai kurtosisnya jauh dari 3. Jika kita menggunakan uji normal dengan bantuan library normaltest, diperoleh hasil p-value 0.446, karena p-value > 0.05 (nilai alpha), dapat disimpulkan data terdistribusi normal.

4 One-Sample Hypotesis

1. Lembaga riset saat ini sedang mempertanyakan data berat badan individu yang disimpan untuk kepentingan riset lanjutan. Identifikasilah apakah rata-rata berat badan pasien diatas 65 kg?

1. H0 : Mean of weight = 65
2. H1 : Mean of weight > 65
3. Significance level = 0.05
4. One-tailed test (greater than)
5. p-value: 0.00012148092594777005
6. Kesimpulan: Reject H0

```
[45]:  # H0 : Mean of weight = 65
       # H1 : Mean of weight > 65
       # Significance level = 0.05
       # One-tailed test (greater than)

       # Collect the sample and calculate sample statistics
       weight_sample = data["Weight"].sample(n=100, random_state=1)
       sample_mean = weight_sample.mean()
       sample_std = weight_sample.std(ddof=1)
       population_mean = 65
       n = 100

       # Calculate the z-value
       z_value = (sample_mean - population_mean) / (sample_std / np.sqrt(n))

       # Calculate the p-value
       p_value = 1 - stats.norm.cdf(z_value)

       # Compare the p-value to the significance level
       alpha = 0.05
       reject_null = p_value < alpha

       print(f"z-value: {z_value}")
       print(f"p-value: {p_value}")

       if reject_null:
           print("Reject H0")
       else:
```

```
    print("Fail to reject H0")
```

```
z-value: 3.669566792638645
p-value: 0.00012148092594777005
Reject H0
```

Karena p-value < 0.05, maka H0 ditolak dan rata-rata badan pasien di atas 65 kg

2. Tekanan darah yang normal berada pada rentang 120 mmHg. Lembaga riset perlu untuk memastikan apakah data individu yang diukur cukup normal. Periksalah apakah rata-rata tekanan darah sistole bernilai 120 mmHg?

1. H0 : Rata-rata tekanan darah sistole bernilai sama dengan 120 mmHg
2. H1 : Rata-rata tekanan darah sistole bernilai tidak sama dengan 120 mmHg
3. Significance level = 0.05
4. Two-tailed test
5. p-value: 0.30781486174797523
6. Kesimpulan: Fail to reject H0

[46]:
```python
# H0 : Rata-rata tekanan darah sistole bernilai sama dengan 120 mmHg
# H1 : Rata-rata tekanan darah sistole bernilai tidak sama dengan 120 mmHg
# Significance level = 0.05
# Two-tailed test

# Collect the sample and calculate sample statistics
blood_pressure_sample = data["Blood_Pressure"].sample(n=100, random_state=1)
sample_mean = blood_pressure_sample.mean()
sample_std = blood_pressure_sample.std(ddof=1)
population_mean = 120
n = 100

# Calculate the z-value
z_value = (sample_mean - population_mean) / (sample_std / np.sqrt(n))

# Calculate the p-value
p_value = 2 * (1 - stats.norm.cdf(np.abs(z_value)))

# Compare the p-value to the significance level
alpha = 0.05
reject_null = p_value < alpha

print(f"z-value: {z_value}")
print(f"p-value: {p_value}")

if reject_null:
    print("Reject H0")
else:
    print("Fail to reject H0")
```

```
z-value: -1.0198178377574048
p-value: 0.30781486174797523
Fail to reject H0
```

Karena p-value > 0.05, maka gagal menolak H0 dan rata-rata tekanan darah sistole bernilai 120 mmHg

3. Periksalah apakah data 200 individu pertama pengujian (baris teratas) memiliki rata-rata waktu olahraga per minggu tidak sama dengan 15 jam?

1. H0 : Data 200 individu pertama memiliki rata-rata waktu olahraga per minggu sama dengan 15 jam
2. H1 : Data 200 individu pertama memiliki rata-rata waktu olahraga per minggu tidak sama dengan 15 jam
3. Significance level = 0.05
4. Two-tailed test
5. p-value: 0
6. Kesimpulan: Reject H0

```
[47]: # H0 : Data 200 individu pertama memiliki rata-rata waktu olahraga per minggu
      ↪sama dengan 15 jam
      # H1 : Data 200 individu pertama memiliki rata-rata waktu olahraga per minggu
      ↪tidak sama dengan 15 jam
      # Significance level = 0.05
      # Two-tailed test

      # Collect the sample and calculate sample statistics
      exercise_hours_per_week_sample = data["Exercise_Hours_Per_Week"].head(200)
      sample_mean = exercise_hours_per_week_sample.mean()
      sample_std = exercise_hours_per_week_sample.std(ddof=1)
      population_mean = 15
      n = 200

      # Calculate the z-value
      z_value = (sample_mean - population_mean) / (sample_std / np.sqrt(n))

      # Calculate the p-value
      p_value = 2 * (1 - stats.norm.cdf(np.abs(z_value)))

      # Compare the p-value to the significance level
      alpha = 0.05
      reject_null = p_value < alpha

      print(f"z statistic: {z_value}")
      print(f"p-value: {p_value}")

      if reject_null:
          print("Reject H0")
```

```
    else:
        print("Fail to reject H0")
```

```
z statistic: -14.823803025227171
p-value: 0.0
Reject H0
```

Karena p-value < 0.05, maka H0 ditolak dan rata-rata waktu olahraga per minggu tidak sama dengan 15 jam

4. Apakah penduduk dengan pendapatan yang lebih besar dari Rp 7.500.000,00 tidak sama dengan 30% dari data keseluruhan individu?

1. H0 : Jumlah penduduk dengan pendapatan > 7,5 juta sama dengan 30% dari jumlah data keseluruhan
2. HA : Jumlah penduduk dengan pendapatan > 7,5 juta tidak sama dengan 30% dari jumlah data keseluruhan
3. Significance level = 0.05
4. Two-tailed test
5. p-value: 0
6. Kesimpulan: Reject H0

[48]:
```python
# H0 : Jumlah penduduk dengan pendapatan > 7,5 juta sama dengan 30% dari jumlah
 ↪data keseluruhan
# HA : Jumlah penduduk dengan pendapatan > 7,5 juta tidak sama dengan 30% dari
 ↪jumlah data keseluruhan
# Significance level = 0.05
# Two-tailed test

# Find the sample proportion for people with income > 7,500,000
income_more_than_75 = data[data["Income"] > 7500000]
p_hat = len(income_more_than_75) / len(data)

# Given population proportion
p = 0.3
n = len(data)

# Calculate the standard error under H0
SE = np.sqrt(p * (1 - p) / n)

# Calculate the Z statistic
Z = (p_hat - p) / SE

# Calculate the p-value for a two-tailed test
p_value = 2 * (1 - norm.cdf(abs(Z)))

print(f"Z statistic: {Z}")
print(f"p-value: {p_value}")
```

```python
# Compare the p-value to the significance level
alpha = 0.05
reject_null = p_value < alpha

if reject_null:
    print("Reject H0")
else:
    print("Fail to reject H0")
```

```
Z statistic: -20.038395423663218
p-value: 0.0
Reject H0
```

Karena p-value < 0.05, maka H0 ditolak dan jumlah penduduk yang memiliki pendapatan yang lebih besar dari Rp 7.500.000,00 tidak sama dengan 30% dari jumlah data keseluruhan individu

5 Two-Sample Hypotesis

5.0.1 Lembaga riset membagi data individu menjadi dua bagian, yaitu data individu yang lebih awal masuk data penelitian (bagian atas) dan yang baru saja (bagian bawah).

[49]:
```python
# Top data
top_data = data.head(100)

# Bottom data
bottom_data = data.tail(100)
```

1. Periksa apakah rata-rata berat badan individu yang lebih awal masuk data penelitian sama dengan rata-rata berat badan individu yang masuk baru saja?

1. H0 : Average of weight in top data = Average of weight in bottom data
2. HA : Average of weight in top data != Average of weight in bottom data
3. Significance level = 0.05
4. Two-tailed test
5. p-value: 0.5491277875257794
6. Kesimpulan: Fail to reject H0

[50]:
```python
# H0 : Average of weight in top data = Average of weight in bottom data
# HA : Average of weight in top data != Average of weight in bottom data
# Significance level = 0.05
# Two-tailed test

# Sample mean
top_weight_mean = top_data["Weight"].mean()
bottom_weight_mean = bottom_data["Weight"].mean()
```

```python
# Sample standard deviation
top_weight_std = top_data["Weight"].std()
bottom_weight_std = bottom_data["Weight"].std()

# Sample size
top_weight_n = len(top_data)
bottom_weight_n = len(bottom_data)

# Calculate the Z value
Z = (top_weight_mean - bottom_weight_mean) / np.sqrt((top_weight_std**2 /
 ↪top_weight_n) + (bottom_weight_std**2 / bottom_weight_n))

# Calculate the p-value
p_value = 2 * (1 - norm.cdf(abs(Z)))

print(f"Z statistic: {Z}")
print(f"p-value: {p_value}")
# Make a decision based on the p-value
if p_value < 0.05:
    print("Reject H0")
else:
    print("Fail to reject H0")
```

```
Z statistic: -0.5990676284535051
p-value: 0.5491277875257794
Fail to reject H0
```

Karena p-value > 0.05, maka gagal menolak H0 dan rata-rata berat badan individu yang lebih awal masuk data penelitian sama dengan rata-rata berat badan individu yang baru masuk

2. Bagaimana dengan pendapatan individu, apakah pendapatan sistole individu yang lebih awal masuk data penelitian lebih besar Rp 1.250.000,00 dari yang baru saja masuk?

1. H0 : average income of top data - average income of bottom data = 1250000
2. HA : average income of top data - average income of bottom data != 1250000
3. Significance level = 0.05
4. Two-tailed test
5. p-value: 3.6964486245016914e-05
6. Kesimpulan: Reject H0

```python
[51]: # H0 : average income of top data - average income of bottom data = 1250000
      # HA : average income of top data - average income of bottom data != 1250000
      # Significance level = 0.05
      # Two-tailed test

      # Sample mean
      top_income_mean = top_data["Income"].mean()
```

```python
bottom_income_mean = bottom_data["Income"].mean()

# Sample standard deviation
top_income_std = top_data["Income"].std()
bottom_income_std = bottom_data["Income"].std()

# Sample size
top_income_n = len(top_data)
bottom_income_n = len(bottom_data)

# Calculate the Z value
Z = (top_income_mean - bottom_income_mean - 1250000) / np.
 ↪sqrt((top_income_std**2 / top_income_n) + (bottom_income_std**2 /␣
 ↪bottom_income_n))

# Calculate the p-value
p_value = 2 * (1 - norm.cdf(abs(Z)))

print(f"Z statistic: {Z}")
print(f"p-value: {p_value}")
# Make a decision based on the p-value
if p_value < 0.05:
    print("Reject H0")
else:
    print("Fail to reject H0")
```

```
Z statistic: -4.12567755915035
p-value: 3.6964486245016914e-05
Reject H0
```

Karena p-value < 0.05, maka H0 ditolak dan pendapatan sistole individu yang lebih awal masuk data penelitian lebih besar Rp 1.250.000,00 dari yang baru masuk

3. Lembaga riset ingin membandingkan kondisi kesehatan individu dari dua bagian data. Apakah variansi tekanan darah individu yang lebih awal masuk data penelitian sama dengan yang baru saja masuk?

1. H0 : variance blood pressure of top data = variance blood pressure of bottom data
2. HA : variance blood pressure of top data != variance blood pressure of bottom data
3. Significance level = 0.05
4. Two-tailed test
5. p-value: 0.3590528867528784
6. Kesimpulan: Fail to reject H0

```
[52]:  # H0 : variance blood pressure of top data = variance blood pressure of bottom␣
        ↪data
       # HA : variance blood pressure of top data != variance blood pressure of bottom␣
        ↪data
```

```python
# Significance level = 0.05
# Two-tailed test

# Sample variance
top_blood_pressure_var = top_data["Blood_Pressure"].var()
bottom_blood_pressure_var = bottom_data["Blood_Pressure"].var()

# Sample size
top_blood_pressure_n = len(top_data)
bottom_blood_pressure_n = len(bottom_data)

# Calculate the F value
F = top_blood_pressure_var / bottom_blood_pressure_var

# Calculate the degrees of freedom
df_top = top_blood_pressure_n - 1
df_bottom = bottom_blood_pressure_n - 1

# Calculate the p-value
p_value = 2 * min(f.cdf(F, df_top, df_bottom), 1 - f.cdf(F, df_top, df_bottom))

print(p_value)
# Make a decision based on the p-value
if p_value < 0.05:
    print("Reject H0")
else:
    print("Fail to reject H0")
```

```
0.3590528867528784
Fail to reject H0
```

Karena p-value > 0.05, maka gagal menolak H0 dan variansi tekanan darah individu yang lebih awal masuk data penelitian sama dengan yang baru masuk

4.Apakah proporsi waktu olahraga yang lebih dari 8 jam per minggu pada data individu awal lebih besar daripada kuantitas proporsi pada data individu akhir dengan waktu olahraga yang sama?

1. H0 : Exercise hours per week of top data > 8 = Exercise hours per week of bottom data > 8
2. HA : Exercise hours per week of top data > 8 > Exercise hours per week of bottom data > 8
3. Significance level = 0.05
4. One-tailed test (less than)
5. p-value: 0.5575051193299
6. Kesimpulan: Fail to reject H0

```
[53]: # H0 : Exercise hours per week of top data > 8 = Exercise hours per week of␣
      ↪bottom data > 8
```

```python
# HA : Exercise hours per week of top data > 8 > Exercise hours per week of
 ↪bottom data > 8

# Significance level = 0.05
# One-tailed test (less than)

# Collect the sample and calculate sample statistics
top_exercise_hours_per_week_more_than_eight =
 ↪top_data[top_data["Exercise_Hours_Per_Week"] > 8]
bottom_exercise_hours_per_week_more_than_eight =
 ↪bottom_data[bottom_data["Exercise_Hours_Per_Week"] > 8]

# Sample proportion
top_p = len(top_exercise_hours_per_week_more_than_eight) / len(top_data)
bottom_p = len(bottom_exercise_hours_per_week_more_than_eight) /
 ↪len(bottom_data)

# Pooled proportions
p = (len(top_exercise_hours_per_week_more_than_eight) +
 ↪len(bottom_exercise_hours_per_week_more_than_eight)) / (len(top_data) +
 ↪len(bottom_data))

# Calculate the standard error under H0
SE = np.sqrt(p * (1 - p) * (1 / len(top_data) + 1 / len(bottom_data)))

# Calculate the Z statistic
Z = (top_p - bottom_p) / SE

# Calculate the p-value for a one-tailed test
p_value = 1 - norm.cdf(Z)

print(f"Z statistic: {Z}")

print(f"p-value: {p_value}")

# Compare the p-value to the significance level
if p_value < 0.05:
    print("Reject H0")
else:
    print("Fail to reject H0")
```

```
Z statistic: -0.14464677894104197
p-value: 0.5575051193299
Fail to reject H0
```

Karena hasil p-value > alpha (0.05), maka kita gagal menolak H0.