

no-4-statistical-description-1

November 2, 2023

1 Statistical Description

Experiment no.: 4

Aim: Statistical Description

```
[1]: #Name: Mandar Satpute  
#Roll no.: 54  
#Sec: B  
#Subject: Data Science and Statistics (Lab 1)
```

```
[2]: import pandas as pd
```

```
[3]: import matplotlib.pyplot as plt
```

```
[4]: import seaborn as sns
```

```
[5]: import numpy as np
```

```
[6]: import os
```

```
[7]: os.getcwd()
```

```
[7]: 'C:\\Users\\hp\\Downloads'
```

```
[8]: os.chdir('C:\\Users\\hp\\Desktop')
```

```
[9]: df=pd.read_csv("Salary_dataset.csv")
```

```
[10]: df.head()
```

```
[10]:
```

	Unnamed: 0	YearsExperience	Salary
0	0	1.2	39344.0
1	1	1.4	46206.0
2	2	1.6	37732.0
3	3	2.1	43526.0
4	4	2.3	39892.0

```
[11]: df.tail()
```

```
[11]:      Unnamed: 0  YearsExperience  Salary
25          25           9.1  105583.0
26          26           9.6  116970.0
27          27           9.7  112636.0
28          28          10.4  122392.0
29          29          10.6  121873.0
```

```
[12]: df.head(30)
```

```
[12]:      Unnamed: 0  YearsExperience  Salary
0          0           1.2   39344.0
1          1           1.4   46206.0
2          2           1.6   37732.0
3          3           2.1   43526.0
4          4           2.3   39892.0
5          5           3.0   56643.0
6          6           3.1   60151.0
7          7           3.3   54446.0
8          8           3.3   64446.0
9          9           3.8   57190.0
10         10           4.0   63219.0
11         11           4.1   55795.0
12         12           4.1   56958.0
13         13           4.2   57082.0
14         14           4.6   61112.0
15         15           5.0   67939.0
16         16           5.2   66030.0
17         17           5.4   83089.0
18         18           6.0   81364.0
19         19           6.1   93941.0
20         20           6.9   91739.0
21         21           7.2   98274.0
22         22           8.0  101303.0
23         23           8.3  113813.0
24         24           8.8  109432.0
25         25           9.1  105583.0
26         26           9.6  116970.0
27         27           9.7  112636.0
28         28          10.4  122392.0
29         29          10.6  121873.0
```

```
[13]: df.info()
#attribute
```

```
<class 'pandas.core.frame.DataFrame'>
```

```

RangeIndex: 30 entries, 0 to 29
Data columns (total 3 columns):
#   Column                Non-Null Count  Dtype
---  -
0   Unnamed: 0             30 non-null     int64
1   YearsExperience         30 non-null     float64
2   Salary                  30 non-null     float64
dtypes: float64(2), int64(1)
memory usage: 852.0 bytes

```

```
[14]: df.describe()
      #record
```

```

[14]:      Unnamed: 0  YearsExperience      Salary
count    30.000000      30.000000      30.000000
mean     14.500000       5.413333     76004.000000
std       8.803408       2.837888     27414.429785
min       0.000000       1.200000     37732.000000
25%       7.250000       3.300000     56721.750000
50%      14.500000       4.800000     65238.000000
75%      21.750000       7.800000    100545.750000
max      29.000000      10.600000    122392.000000

```

```
[15]: df.shape
```

```
[15]: (30, 3)
```

```
[16]: df.size
```

```
[16]: 90
```

```
[17]: df.ndim
```

```
[17]: 2
```