r5gzm8khx

December 13, 2024

1 Stastical Description on data.

```
[2]: #Exp no. : 3 Stastical Description on data
```

```
[4]: #Name :  Devesh J Arbat
     #Roll no. : 06
     #Section : A
```

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

```
[8]: import os
```

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

```
[10]: 'C:\\Users\\salik\\DSS Practical'
```

```
[12]: os.chdir('C:\\Users\\salik\\DSS Practical')
```

```
[14]: data=pd.read_csv("diabetes.csv")
```

```
[16]: data.head()
```

```
[16]:    Pregnancies  Glucose  BloodPressure  SkinThickness  Insulin   BMI  \
     0            6      148             72             35        0  33.6
     1            1       85             66             29        0  26.6
     2            8      183             64              0        0  23.3
     3            1       89             66             23       94  28.1
     4            0      137             40             35      168  43.1

        DiabetesPedigreeFunction  Age  Outcome
     0                     0.627   50        1
     1                     0.351   31        0
     2                     0.672   32        1
     3                     0.167   21        0
     4                     2.288   33        1
```

```
[18]: data.tail()
```

```
[18]:        Pregnancies  Glucose  BloodPressure  SkinThickness  Insulin   BMI  \
       763           10      101             76             48      180  32.9
       764            2      122             70             27        0  36.8
       765            5      121             72             23      112  26.2
       766            1      126             60              0        0  30.1
       767            1       93             70             31        0  30.4

            DiabetesPedigreeFunction  Age  Outcome
       763                     0.171   63        0
       764                     0.340   27        0
       765                     0.245   30        0
       766                     0.349   47        1
       767                     0.315   23        0
```

[20]: `data.describe()`

```
[20]:        Pregnancies      Glucose  BloodPressure  SkinThickness      Insulin  \
       count   768.000000   768.000000     768.000000     768.000000   768.000000
       mean      3.845052   120.894531      69.105469      20.536458    79.799479
       std       3.369578    31.972618      19.355807      15.952218   115.244002
       min       0.000000     0.000000       0.000000       0.000000     0.000000
       25%       1.000000    99.000000      62.000000       0.000000     0.000000
       50%       3.000000   117.000000      72.000000      23.000000    30.500000
       75%       6.000000   140.250000      80.000000      32.000000   127.250000
       max      17.000000   199.000000     122.000000      99.000000   846.000000

                    BMI  DiabetesPedigreeFunction         Age     Outcome
       count  768.000000                768.000000  768.000000  768.000000
       mean    31.992578                  0.471876   33.240885    0.348958
       std      7.884160                  0.331329   11.760232    0.476951
       min      0.000000                  0.078000   21.000000    0.000000
       25%     27.300000                  0.243750   24.000000    0.000000
       50%     32.000000                  0.372500   29.000000    0.000000
       75%     36.600000                  0.626250   41.000000    1.000000
       max     67.100000                  2.420000   81.000000    1.000000
```

[22]: `data.shape`

[22]: (768, 9)

[24]: `data.size`

[24]: 6912

[26]: `data.ndim`

[26]: 2

[ ]: