

# DSBDL Assignment 03 - Descriptive Statistics: Measures of Central Tendency and Variability

## Part 2

Write a Python program to display some basic statistical details like percentile, mean, standard deviation etc. of the species of 'Iris-setosa', 'Iris-versicolor' and 'Iris-versicolor' of iris.csv dataset.

```
from google.colab import drive
drive.mount('/content/drive')
```

Mounted at /content/drive

```
import numpy as np
import pandas as pd
import seaborn as sns
```

```
ds = pd.read_csv('/content/drive/My Drive/DSBDL/Assignment3/iris.csv')
ds
```

	sepal_length	sepal_width	petal_length	petal_width	species
0	5.1	3.5	1.4	0.2	setosa
1	4.9	3.0	1.4	0.2	setosa
2	4.7	3.2	1.3	0.2	setosa
3	4.6	3.1	1.5	0.2	setosa
4	5.0	3.6	1.4	0.2	setosa
...	...	...	...	...	...
145	6.7	3.0	5.2	2.3	virginica
146	6.3	2.5	5.0	1.9	virginica
147	6.5	3.0	5.2	2.0	virginica
148	6.2	3.4	5.4	2.3	virginica
149	5.9	3.0	5.1	1.8	virginica

150 rows × 5 columns

Next steps:

[Generate code with ds](#)[View recommended plots](#)

```
ds['sepal_length'].describe()
```

```
count    150.000000
mean      5.843333
std       0.828066
min       4.300000
25%      5.100000
50%      5.800000
75%      6.400000
max       7.900000
Name: sepal_length, dtype: float64
```

```
ds['sepal_width'].describe()
```

```
count    150.000000
mean      3.054000
std       0.433594
min       2.000000
25%      2.800000
50%      3.000000
75%      3.300000
max       4.400000
Name: sepal_width, dtype: float64
```

```
ds['petal_length'].describe()
```

```
count    150.000000
mean      3.758667
std       1.764420
min       1.000000
```

```
25%      1.600000
50%      4.350000
75%      5.100000
max       6.900000
Name: petal_length, dtype: float64
```

```
ds['petal_width'].describe()
```

```
count    150.000000
mean      1.198667
std       0.763161
min       0.100000
25%       0.300000
50%       1.300000
75%       1.800000
max       2.500000
Name: petal_width, dtype: float64
```

```
ds['species'].value_counts()
```

```
setosa      50
versicolor  50
virginica   50
Name: species, dtype: int64
```

Done!