

siddhu10

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```
[1]: import numpy as np
import pandas as pd
from numpy import array

SD = pd.read_csv('Iris_Dataset.csv')

SD.head()
```

```
[1]:   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
```

```
[2]: column=len(list(MD))
      column
```

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NameError                                Traceback (most recent call last)
Cell In[2], line 1
----> 1 column=len(list(MD))
      2 column

NameError: name 'MD' is not defined
```

```
[3]: SD.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 150 entries, 0 to 149
Data columns (total 5 columns):
#   Column          Non-Null Count  Dtype
---  -
0   sepal_length    150 non-null   float64
1   sepal_width     150 non-null   float64
2   petal_length    150 non-null   float64
3   petal_width     150 non-null   float64
```

```
4 species      150 non-null    object
dtypes: float64(4), object(1)
memory usage: 6.0+ KB
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```
[4]: np.unique(MD["species"])
array(['Iris-setosa', 'Iris-versicolor', 'Iris-virginica'], dtype='<U15')
```

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NameError                                Traceback (most recent call last)
Cell In[4], line 1
----> 1 np.unique(MD["species"])
      2 array(['Iris-setosa', 'Iris-versicolor', 'Iris-virginica'], dtype='<U15 ')

NameError: name 'MD' is not defined
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[5]: MD.describe()
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NameError                                Traceback (most recent call last)
Cell In[5], line 1
----> 1 MD.describe()

NameError: name 'MD' is not defined
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[6]: import seaborn as sns
import matplotlib
import matplotlib.pyplot as plt
%matplotlib inline

fig, axes = plt.subplots(2, 2, figsize=(16, 8))

axes[0,0].set_title("Distribution of First Column")
axes[0,0].hist(MD["sepal_length"]);

axes[0,1].set_title("Distribution of Second Column")
axes[0,1].hist(MD["sepal_width"]);

axes[1,0].set_title("Distribution of Third Column")
axes[1,0].hist(MD["petal_length"]);

axes[1,1].set_title("Distribution of Fourth Column")
axes[1,1].hist(MD["petal_width"]);
```

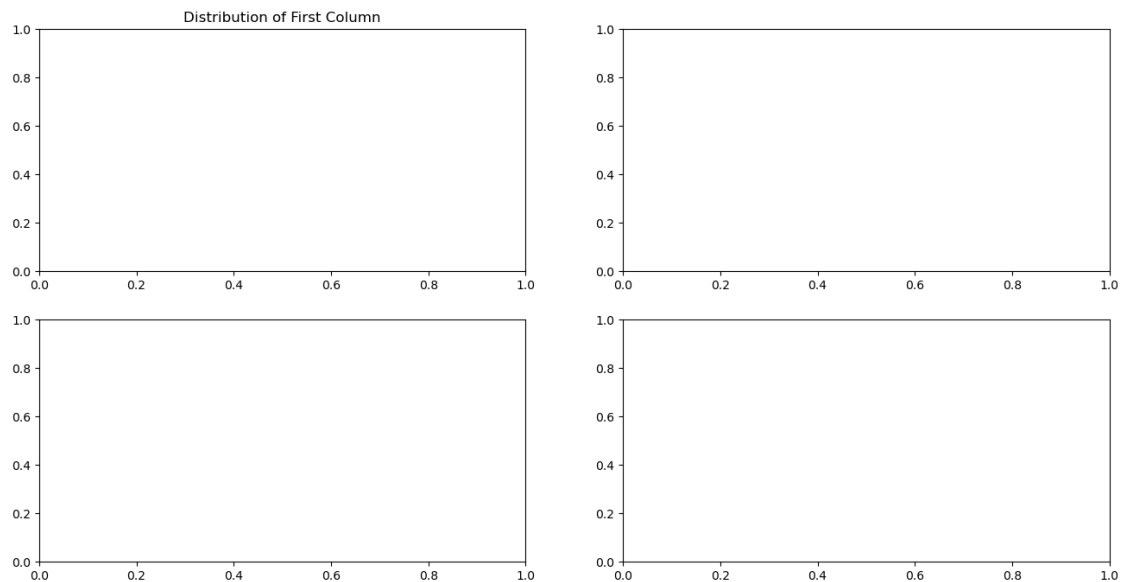
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NameError                                Traceback (most recent call last)
Cell In[6], line 9
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6 fig, axes = plt.subplots(2, 2, figsize=(16, 8))
8 axes[0,0].set_title("Distribution of First Column")
----> 9 axes[0,0].hist(MD["sepal_length"]);
11 axes[0,1].set_title("Distribution of Second Column")
12 axes[0,1].hist(MD["sepal_width"]);

```

NameError: name 'MD' is not defined



```

[ ]: data_to_plot=[MD["sepal_length"],MD['sepal_width'],MD['petal_length'],MD['petal_width']]
      sns.set_style("whitegrid")
      fig=plt.figure(1,figsize=(8,8))
      ax=fig.add_subplot(111)
      bp=ax.boxplot(data_to_plot)

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