

```
In [1]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

```
In [2]: iris=sns.load_dataset("iris")
```

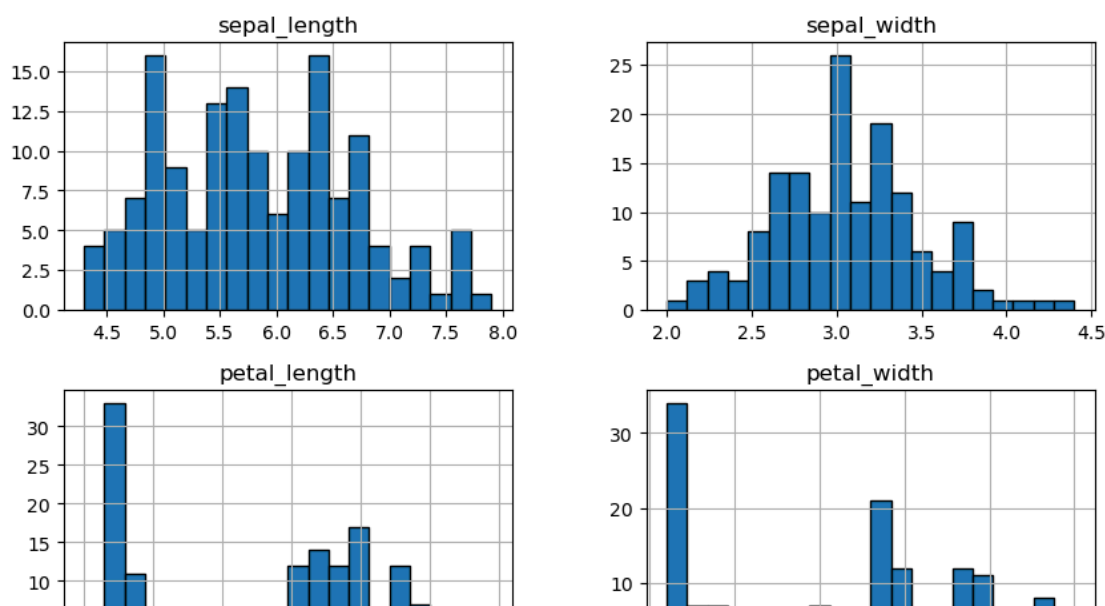
```
In [7]: print("Dataset Features and Types:")
print(iris.dtypes)
```

Dataset Features and Types:

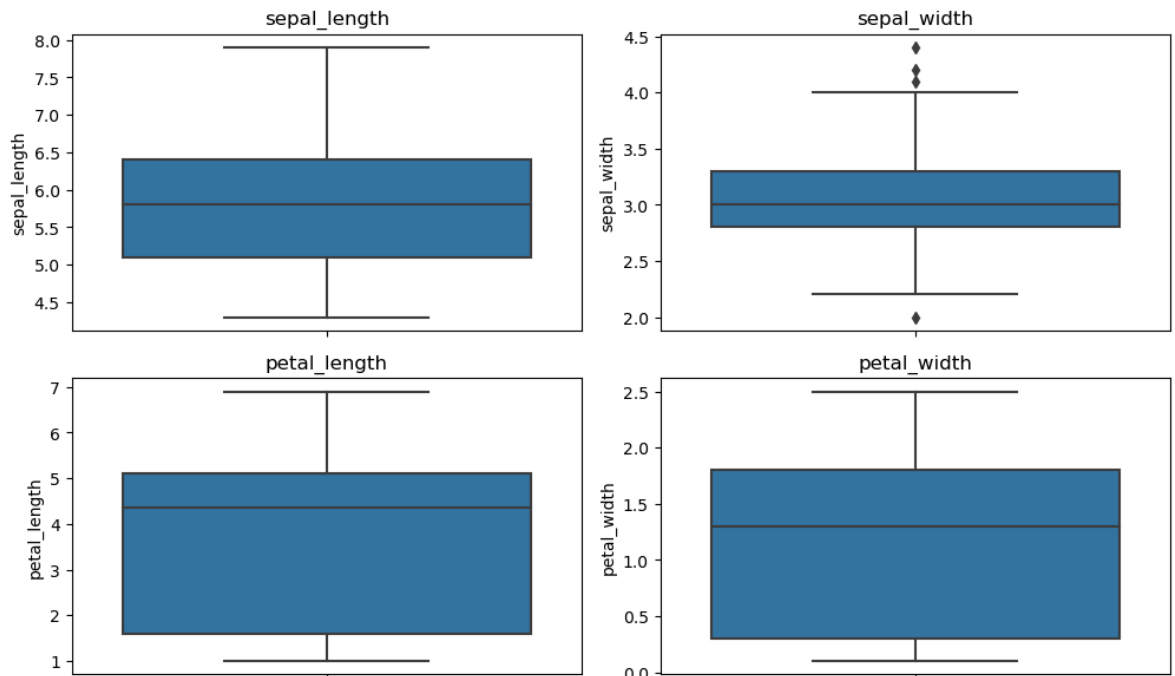
```
sepal_length    float64
sepal_width      float64
petal_length     float64
petal_width      float64
species          object
dtype: object
```

```
In [10]: iris.hist(figsize=(10,6),bins=20,edgecolor='black')
plt.suptitle("histogram of each feature",fontsize=14)
plt.show()
```

histogram of each feature



```
In [12]: plt.figure(figsize=(10,6))
for i,column in enumerate(iris.columns[:-1]):
    plt.subplot(2,2,i+1)
    sns.boxplot(y=iris[column])
    plt.title(column)
plt.tight_layout()
plt.show()
```



```
In [14]: outliers={}
for column in iris.columns[:-1]:
    q1=iris[column].quantile(0.25)
    q3=iris[column].quantile(0.75)
    iqr=q3-q1
    lower_bound=q1-1.5*iqr
    upper_bound=q3+1.5*iqr
    outliers[column]=iris[(iris[column]<lower_bound)|(iris[column]>upper_bound)]
print("outliers in each features:")
print(outliers)
```

outliers in each features:

```
{'sepal_length': [], 'sepal_width': [4.4, 4.1, 4.2, 2.0], 'petal_length': [], 'petal_width': []}
```

In []: