▾ LOGISTIC REGRESSION

```python
import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
```

```python
from sklearn.datasets import load_digits
digits= load_digits()
```
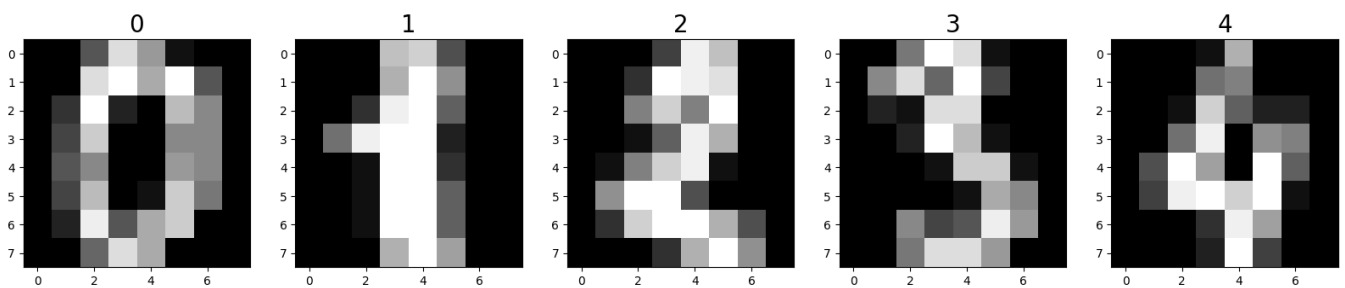
```python
X=digits.data
X.shape
```

```
    (1797, 64)
```

```python
y=digits.target
y.shape
```

```
    (1797,)
```

```python
plt.figure(figsize=(20,4))
for index, (image,label) in enumerate(zip(digits.data[0:5],digits.target[0:5])):
    plt.subplot(1,5,index+1)
    plt.imshow(np.reshape(image, (8,8)),cmap=plt.cm.gray)
    plt.title(label,fontsize=20)
```



```python
from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test=train_test_split(X,y,test_size=0.2, random_state=0)
```

```python
df= sns.load_dataset("iris")
df.head()
```

	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

```
X=df.iloc[:,:1]
y=df.iloc[:,1:]
```

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