



Al-Mustaqbal University
College of Sciences
Intelligent Medical System Department



جامعة المستقبل
AL MUSTAQBAL UNIVERSITY

كلية العلوم
قسم الانظمة الطبية الذكية
Lab: (2)

Subject: Machine Learning

Class: Third

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استدعاء load_iris Dataset من مكتبة sklearn والتعامل معها

```
import pandas as pd
from sklearn.datasets import load_iris
from sklearn.model_selection import train_test_split

import matplotlib.pyplot as plt

iris=load_iris()
df=pd.DataFrame(iris.data ,columns=iris.feature_names)

print(df.head())
print(df.info())
print(df.shape)
```

استدعاء load_digits من مكتبة sklearn والتعامل معها وتقسيمها

```
import pandas as pd
from sklearn.datasets import load_digits
from sklearn.model_selection import train_test_split

import matplotlib.pyplot as plt

digits=load_digits()
print (dir(digits))

df=pd.DataFrame(digits.data
 ,columns=digits.feature_names)
print("----- Displaying the data frame -----\n",
df.head())
print("-----Draw the digit of index 100 -----")

plt.imshow(digits.images[100])
plt.show()
```



```
print(digits.data[100])
print("-----")
print(digits.target[100])
print("-----")
#Separating the data into training and testing sets
X_train, X_test, y_train, y_test =
train_test_split(digits.data,digits.target,test_size=0.
2)
print (X_test)
print("-----")
print (X_train)
print("-----")
print (y_test)
print("-----")
print (y_train)
```