seaborn sample_1

July 5, 2022

1 use "load_dataset()" and plot

[ ]:
```
import matplotlib.pyplot as plt
import seaborn as sns
import pandas as pd
```

Github dataset about iris flower

[ ]:
```
df = sns.load_dataset('iris')
df
```

[ ]:

	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 x 5 columns]

[ ]:
```
df.head()
```

[ ]:

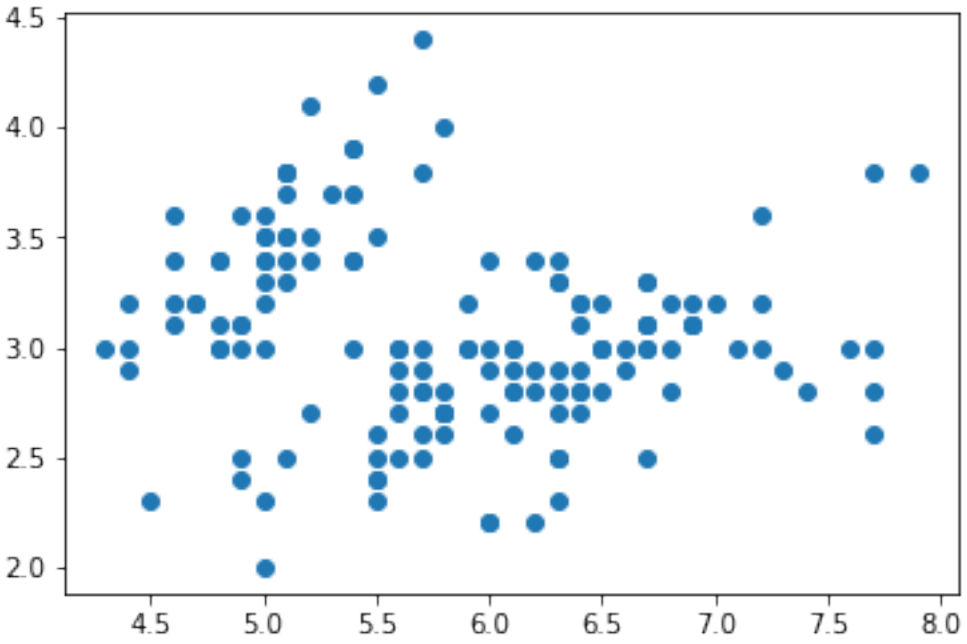
	sepal_length	sepal_width	petal_length	petal_width	species
0	5.1	3.5	1.4	0.2	setosa
1	4.9	3.0	1.4	0.2	setosa
2	4.7	3.2	1.3	0.2	setosa
3	4.6	3.1	1.5	0.2	setosa
4	5.0	3.6	1.4	0.2	setosa

- task: draw a scatterplot of sepal length vs width using (1) matplotlib and (2) seaborn

matplotlib

[ ]:
```
plt.scatter(df['sepal_length'], df['sepal_width'])
```

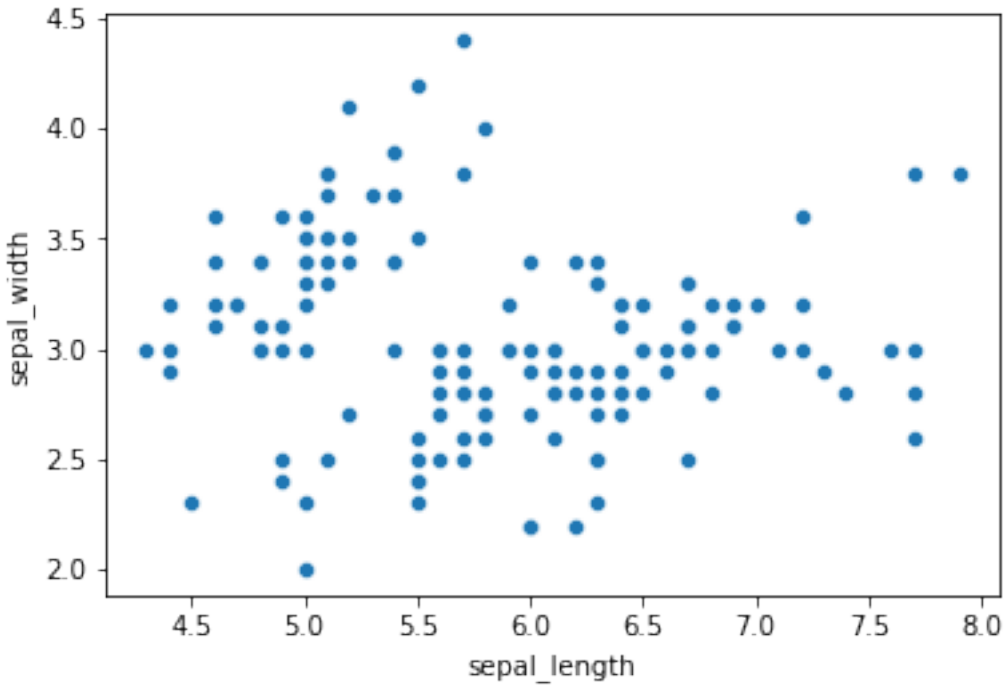
[ ]:
```
<matplotlib.collections.PathCollection at 0x7f9321938a60>
```



seaborn

[ ]:
```
sns.scatterplot(data = df, x = 'sepal_length', y = 'sepal_width')
```

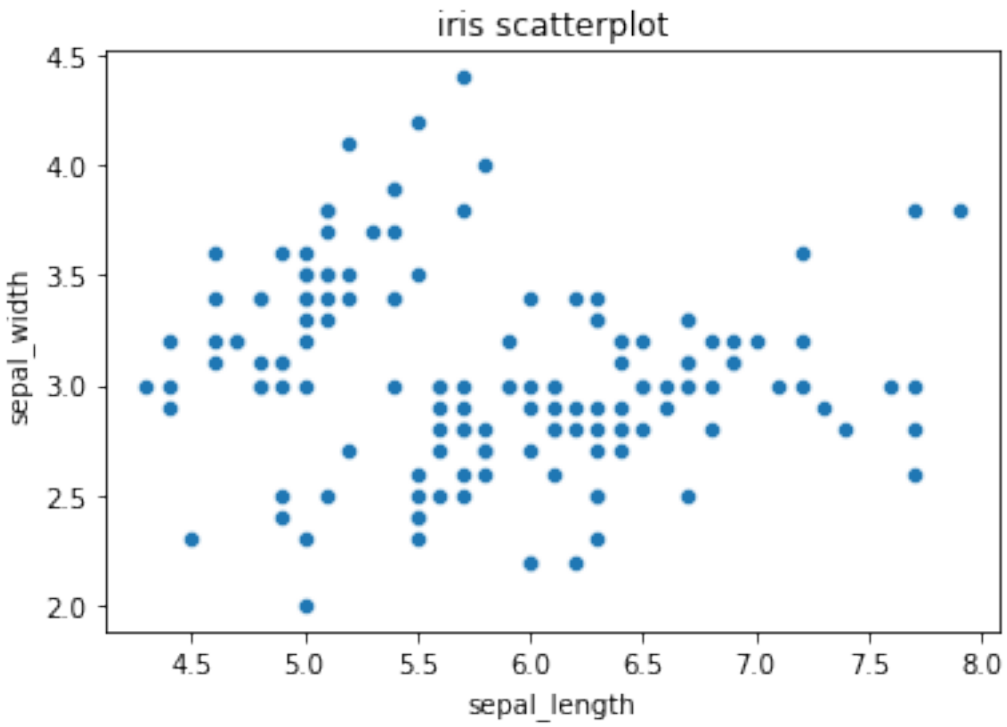
[ ]:
```
<AxesSubplot:xlabel='sepal_length', ylabel='sepal_width'>
```



seaborn and matplotlib

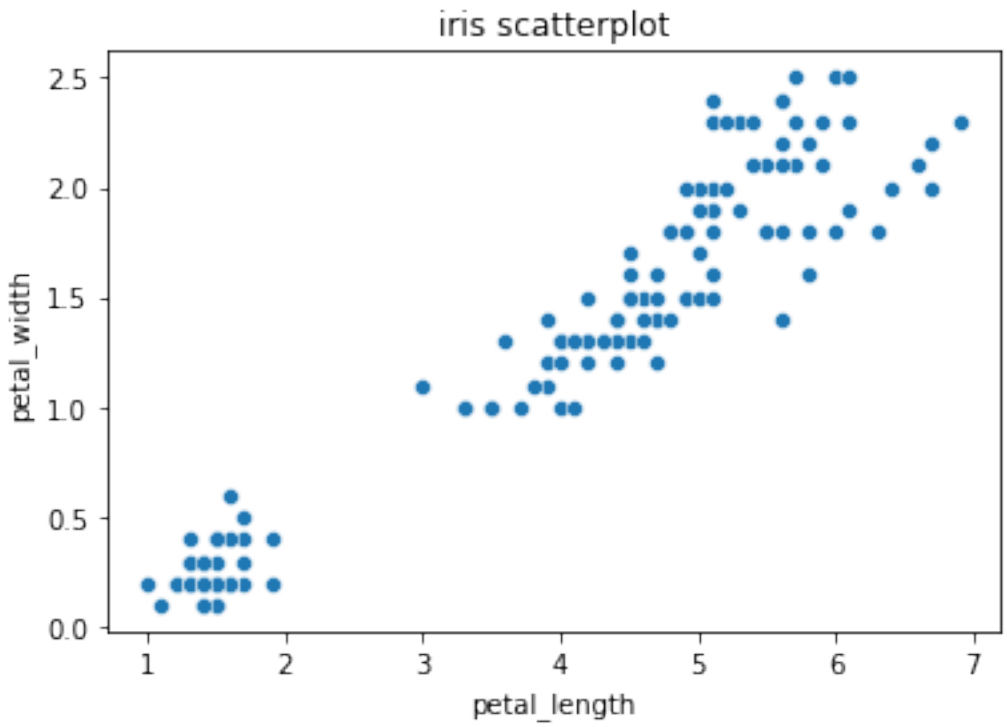
[ ]:
```
sns.scatterplot(data = df, x = 'sepal_length', y = 'sepal_width')
plt.title('iris scatterplot')
```

[ ]:
```
Text(0.5, 1.0, 'iris scatterplot')
```



[ ]:
```
sns.scatterplot(data = df, x = 'petal_length', y = 'petal_width')
plt.title('iris scatterplot')
```

[ ]:
```
Text(0.5, 1.0, 'iris scatterplot')
```


iris scatterplot
petal_width
petal_length
0.0
0.5
1.0
1.5
2.0
2.5
1
2
3
4
5
6
7

[ ]: