O Python 3 | Trusted   Help   Widgets   Kernel   Cell   Insert   View   Edit   File

Code ▶▶ | C | ■ | Run▶| ↓ ↑ 📋 🗐 ✂ + 💾

```python
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
#Load haberman dataset
data = pd.read_csv('Q:\Exploratory-Data-Analysis-master\khormi.csv')
# no. of data-points and features
data.shape
```

In [1]:

(4 ,305)

Out[1]:

```python
# set columns names to dataset
data.columns = ['Age','Op_Year','axil_nodes_det','Status']
data.columns
```

In [2]:

Index(['Age', 'Op_Year', 'axil_nodes_det', 'Status'], dtype='object')

Out[2]:

```python
# no. of data-points in each class
data['Status'].value_counts()
```

In [3]:

```
224    1
81     2
Name: Status, dtype: int64
```

Out[3]:

```python
# divide the target values into lists by using class names
class1 = data.loc[data['Status'] == 1]
class2 = data.loc[data['Status'] == 2]
```

In [5]:

```python
# 1D-scatter plot
import numpy as np
sns.set_style("whitegrid");
plt.figure(1)
plt.subplot(1,3,1)
plt.plot(class1['Age'],np.zeros_like(class1['Age']),'o')
plt.plot(class2['Age'],np.zeros_like(class2['Age']),'o')
plt.xlabel('Age')
plt.subplot(1,3,2)
plt.plot(class1['Op_Year'],np.zeros_like(class1['Op_Year']),'-')
```

In [6]:

[<matplotlib.lines.Line2D at 0x1dd4345e748>]

Out[6]:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	30	64	1	1														
2	30	62	3	1														
3	30	65	0	1														
4	31	59	2	1														
5	31	65	4	1														
6	33	58	10	1														
7	33	60	0	1														
8	34	59	0	2														
9	34	66	9	2														
10	34	58	30	1														
11	34	60	1	1														
12	34	61	10	1														
13	34	67	7	1														
14	34	60	0	1														
15	35	64	13	1														
16	35	63	0	1														
17	36	60	1	1														
18	36	69	0	1														
19	37	60	0	1														
20	37	63	0	1														
21	37	58	0	1														
22	37	59	6	1														
23	37	60	15	1														
24	37	63	0	1														

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README.md ✕

Q: > Exploratory-Data-Analysis-master > README.md > # Exploratory-Data-Analysis

```
1   # Exploratory-Data-Analysis
2   Data preprocessing for machine learning model
3   Used simple data visulaization techniques to know about dataset.
4
```

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