Apresenta??o_ferramentas

August 9, 2018

1 Apresentação de algumas ferramentas

1.0.1 NumPy

http://www.numpy.org/
    https://docs.scipy.org/doc/numpy/user/quickstart.html

1.0.2 SciPy

https://scipy.org/
    https://scipy.org/getting-started.html
    https://docs.scipy.org/doc/scipy/reference/tutorial/index.html

1.0.3 matplotlib

https://matplotlib.org/
    https://matplotlib.org/gallery/index.html
    https://matplotlib.org/tutorials/index.html
    https://matplotlib.org/api/pyplot_summary.html
    https://matplotlib.org/faq/usage_faq.html
    matplotlib 2 já escolhe o backend corretamente, não precisa do %matplotlib inline

1.0.4 seaborn

https://seaborn.pydata.org/
    https://seaborn.pydata.org/examples/index.html#example-gallery
    https://seaborn.pydata.org/tutorial.html#tutorial
    https://seaborn.pydata.org/introduction.html#introduction
    https://seaborn.pydata.org/api.html#api-ref

1.0.5 scikit-learn

http://scikit-learn.org/stable/

1.0.6 pandas

https://pandas.pydata.org/
http://pandas.pydata.org/pandas-docs/stable/
http://pandas.pydata.org/pandas-docs/stable/10min.html
http://pandas.pydata.org/pandas-docs/stable/tutorials.html
http://pandas.pydata.org/pandas-docs/stable/cookbook.html
https://pandas.pydata.org/pandas-docs/stable/generated/pandas.DataFrame.html

In [ ]:
```
# numpy
```

In [ ]:
```
# scipy
```

In [ ]:
```
# matplotlib
```

```
import matplotlib
matplotlib.use('TkAgg')
print(matplotlib.__version__)
#%matplotlib inline

from matplotlib import pyplot as plt
plt.plot([1,2,3])
plt.show()
```

In [ ]:
```
# seaborn
```

```
import numpy as np
import seaborn as sns
sns.set(style="ticks")

rs = np.random.RandomState(11)
x = rs.gamma(2, size=1000)
y = -.5 * x + rs.normal(size=1000)

sns.jointplot(x, y, kind="hex", color="#4CB391")
plt.show()
```

In [ ]:
```
# scikit-learn
```

```
from sklearn.neighbors import NearestNeighbors

help(NearestNeighbors)
```

In [ ]:
```
# pandas
```

```
import pandas as pd

# Construct the DataFrame
products = pd.DataFrame({'category': ['Cleaning', 'Cleaning', 'Entertainment', 'Enterta
```

```
'store': ['Walmart', 'Dia', 'Walmart', 'Fnac', 'Dia','Walmart']
'price':[11.42, 23.50, 19.99, 15.95, 55.75, 111.55],
'testscore': [4, 3, 5, 7, 5, 8]})
```