

Learning Material

1. free ebook: https://www.packtpub.com/packt/free-ebook/python-machine-learning-algorithms/?utm_source=kdnuggets&utm_medium=referral&utm_campaign=freeebook
2. Safari Video ML with Python
<http://proquestcombo.safaribooksonline.com.ezproxy.torontopubliclibrary.ca/video/programming/machine-learning/100000006a0456>

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1. Light Intro, someones homework pps:
https://in.pycon.org/2011/static/files/talks/11/Introduction_To_ML_Partial_2.pdf
2. Some Pandas examples, buried in the book:
<https://pythonizame.s3.amazonaws.com/media/Book/machine-learning-python-essential-techniques-predictive-analysis/file/008c0aac-9784-11e5-964d-04015fb6ba01.pdf>
3. kdnuggets: <http://www.kdnuggets.com/2016/12/packt-free-ebooks-machine-learning-python-data-analysis.html>
4. Try to download somewhere: <http://ebook-dl.com/book/3605>
5. DataScience, online course from MIT: https://bigdataanalytics.mit.edu/?utm_medium=SEM&utm_source=mitxpro&utm_campaign=DSX-FL17&utm_content=adwords-other-6
6. GitHub sklearn examples: <https://github.com/GaelVaroquaux/scikit-learn>

Articles

1. 10 Algorithms: <http://www.kdnuggets.com/2016/08/10-algorithms-machine-learning-engineers.html>
2. 42 steps: <http://www.kdnuggets.com/2017/08/42-steps-mastering-data-science.html>
3. 30 Cheat Sheets: <http://www.kdnuggets.com/2017/09/essential-data-science-machine-learning-deep-learning-cheat-sheets.html>
4. Python vs R: <http://www.kdnuggets.com/2017/09/python-vs-r-data-science-machine-learning.html>
Plus you can call R libraries via rpy2 while you can't do the other way around.

Tutorials

1. <http://www.kdnuggets.com/tutorials/index.html>
2. Terminology: <http://www.kdnuggets.com/2017/09/data-science-key-terms-explained.html>

Courses

1. Safari Video: <http://proquestcombo.safaribooksonline.com.ezproxy.torontopubliclibrary.ca/video/programming/mac/learning/100000006a0456>
2. <https://www.udemy.com/deep-learning-prerequisites-the-numpy-stack-in-python/?start=0>
3. mini-book: <https://machinelearningmastery.com/machine-learning-in-python-step-by-step/>
4. www.learn4master.com/machine-learning/visualize-iris-dataset-using-python
5. get IRIS dataset: https://www.google.ca/search?q=how+to+access+iris+dataset+python&ie=utf-8&oe=utf-8&gws_rd=cr&dcr=0&ei=Nva-We2mC4WUjwTDpYLIBw
6. Stanford course CS224: <http://web.stanford.edu/class/cs224n/>
7. Safari Video: https://login.ezproxy.torontopubliclibrary.ca/login?url=http://proquestcombo.safaribooksonline.com/book/software-engineering-and-development/algorithms/9781939902351/1dot-introduction/data_is_everywhere_html
8. GitHub TensorFlow: <https://github.com/ageron/handson-ml>
9. Safari: <https://www.safaribooksonline.com/live-training/courses/introduction-to-tensorflow/0636920086703/>
10. Safari Python: <https://login.ezproxy.torontopubliclibrary.ca/login?url=http://proquestcombo.safaribooksonline.com/video/programming/python/9781785883873>
11. Stanford Slides: http://web.stanford.edu/class/cs20si/lectures/slides_01.pdf
12. Stanford Tensor Flow: <https://web.stanford.edu/class/cs20si/syllabus.html>
13. Safari: <https://login.ezproxy.torontopubliclibrary.ca/login?url=http://proquestcombo.safaribooksonline.com/book/programming/9781491962282>
14. Best Resources List on GitHub: <https://github.com/ChristosChristofidis/awesome-deep-learning#tutorials>
15. Difference AI, ML DL, DS, Statistics: <http://www.datasciencecentral.com/profiles/blogs/difference-between-machine-learning-data-science-ai-deep-learning>

Schedule September

- 1 . Udemy Pandas, Create Cheat Sheet
- 2 . Lynda NymPy, Pandas

Schedule October

In [4]:

```
import scipy
import numpy
import matplotlib
import pandas
import sklearn
```

sklearn example of datasets

http://scikit-learn.org/stable/auto_examples/datasets/plot_iris_dataset.html#

In [3]:

```
print(__doc__)

# Code source: Gaël Varoquaux
# Modified for documentation by Jaques Grobler
# License: BSD 3 clause

import matplotlib.pyplot as plt
from mpl_toolkits.mplot3d import Axes3D
from sklearn import datasets
from sklearn.decomposition import PCA

# import some data to play with
iris = datasets.load_iris()
X = iris.data[:, :2] # we only take the first two features.
y = iris.target

x_min, x_max = X[:, 0].min() - .5, X[:, 0].max() + .5
y_min, y_max = X[:, 1].min() - .5, X[:, 1].max() + .5

plt.figure(2, figsize=(8, 6))
plt.clf()

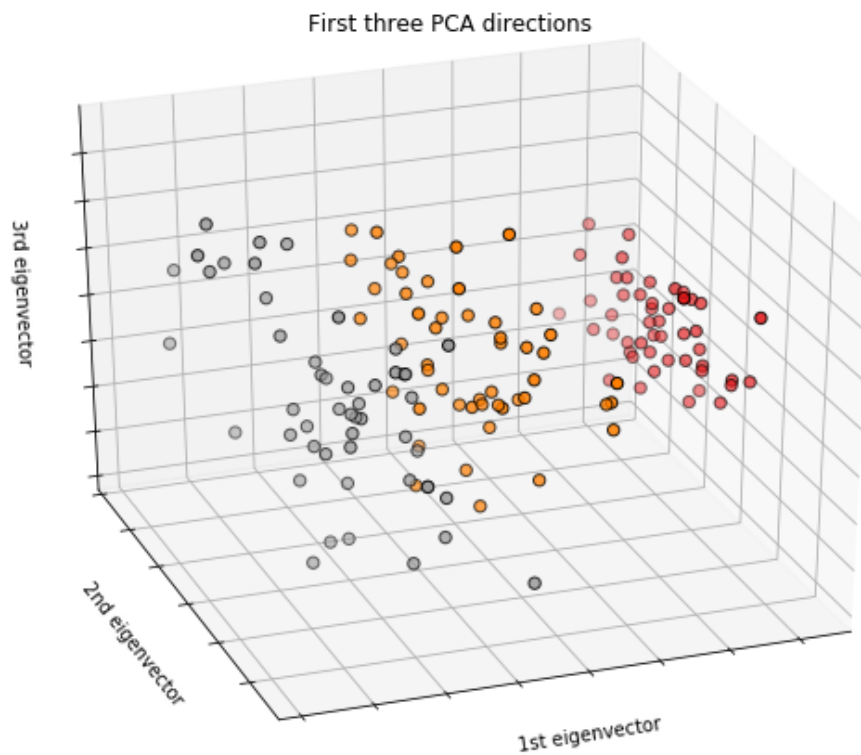
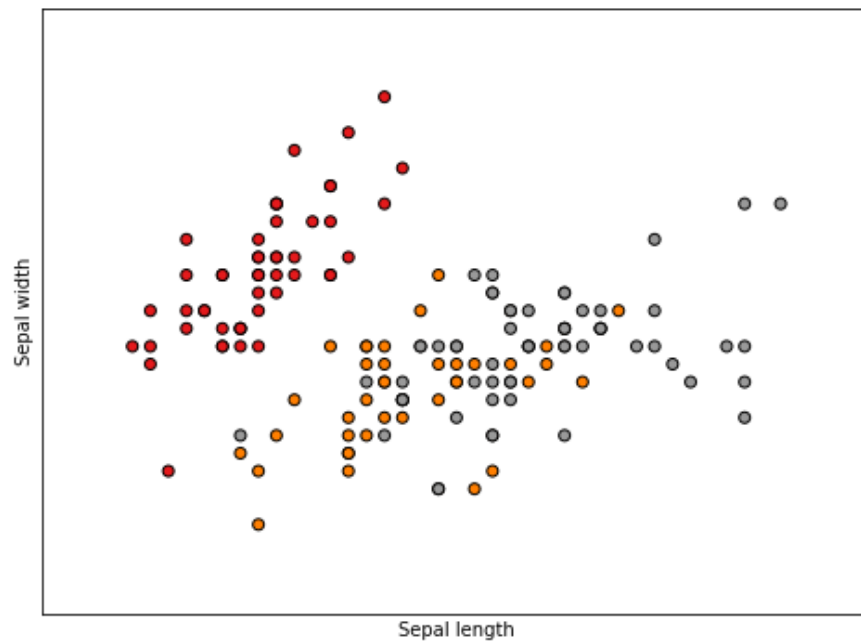
# Plot the training points
plt.scatter(X[:, 0], X[:, 1], c=y, cmap=plt.cm.Set1,
            edgecolor='k')
plt.xlabel('Sepal length')
plt.ylabel('Sepal width')

plt.xlim(x_min, x_max)
plt.ylim(y_min, y_max)
plt.xticks(())
plt.yticks(())

# To get a better understanding of interaction of the dimensions
# plot the first three PCA dimensions
fig = plt.figure(1, figsize=(8, 6))
ax = Axes3D(fig, elev=-150, azimuth=110)
X_reduced = PCA(n_components=3).fit_transform(iris.data)
ax.scatter(X_reduced[:, 0], X_reduced[:, 1], X_reduced[:, 2], c=y,
            cmap=plt.cm.Set1, edgecolor='k', s=40)
ax.set_title("First three PCA directions")
ax.set_xlabel("1st eigenvector")
ax.w_xaxis.set_ticklabels([])
ax.set_ylabel("2nd eigenvector")
ax.w_yaxis.set_ticklabels([])
ax.set_zlabel("3rd eigenvector")
ax.w_zaxis.set_ticklabels([])

plt.show()
```

Automatically created module for IPython interactive environment



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