

Chapter 14

Scikit-Learn Workshop 4 :

非監督式學習 — 集群分析

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Scikit-Learn_Workshop_4-UL-Clustering_Analysis.ipynb

[EXAMPLE] : with Breast Cancer Wisconsin (Original) Data Set : **wisc_bc_data.csv**

A. Unsupervised learning — Dimensionality Reduction

(Sklearn : http://scikit-learn.org/stable/modules/unsupervised_reduction.html)

■ **PCA** (Principal Component Analysis)

Ref : “05.09-Principal-Component-Analysis.ipynb”

from the Python Data Science Handbook by Jake VanderPlas

B. Unsupervised learning — Gaussian Clustering

(Sklearn : <http://scikit-learn.org/stable/modules/mixture.html>)

■ **Gaussian mixture models**

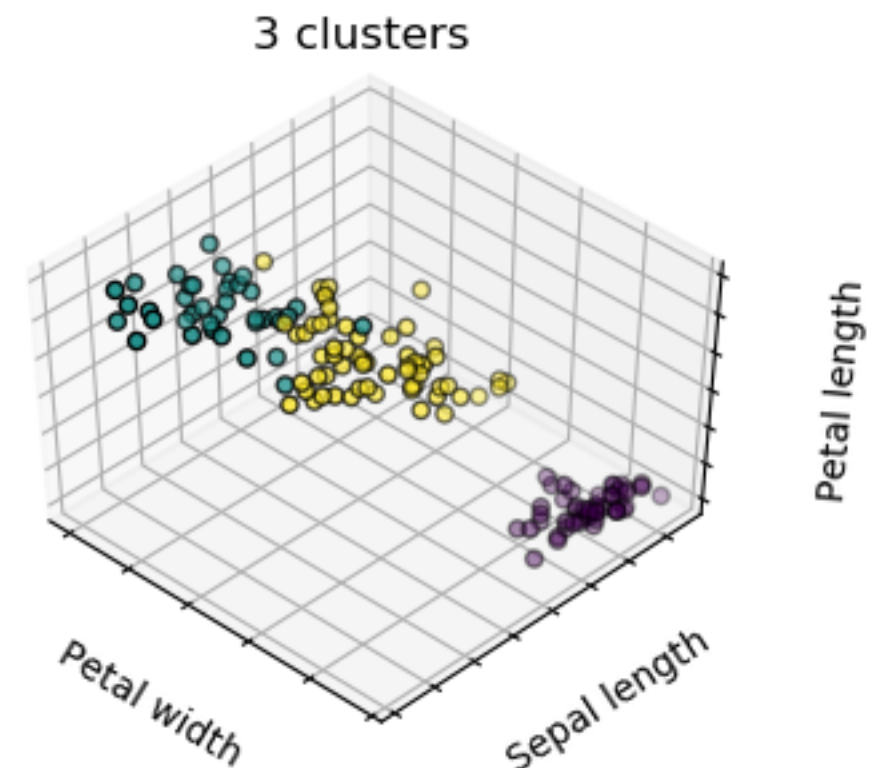
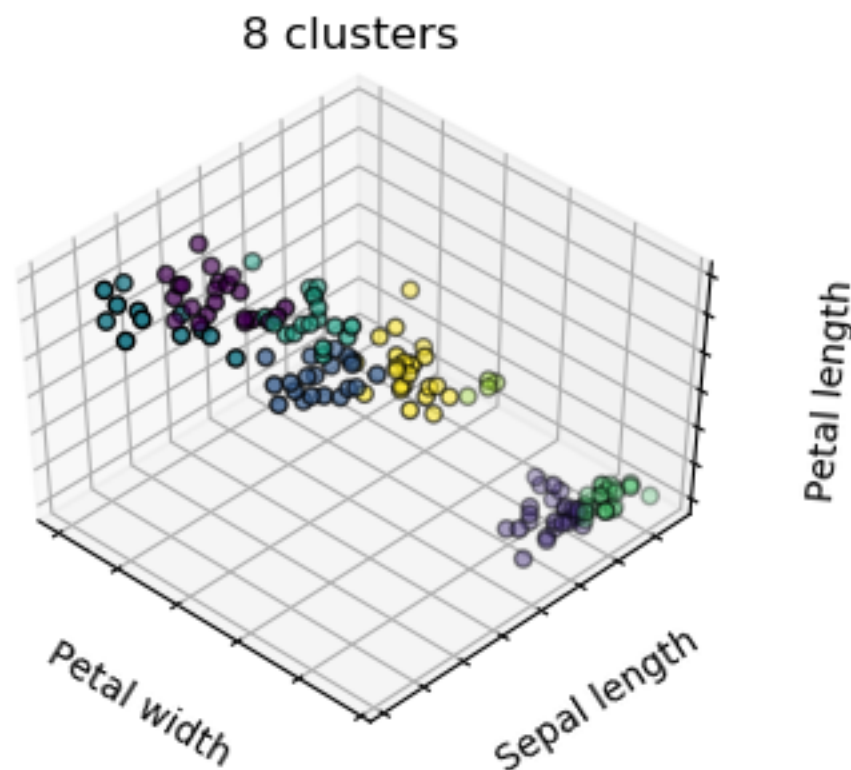
Ref : “05.12-Gaussian mixture.ipynb”

from the Python Data Science Handbook by Jake VanderPlas

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C. Unsupervised learning — K-means Clustering

(Sklearn : http://scikit-learn.org/stable/auto_examples/cluster/plot_cluster_iris.html)



■ K-means models

Ref : “05.11-K-Means.ipynb”

from the Python Data Science Handbook by Jake VanderPlas