

Data Clustering and Principal Component analysis.

Here we present a simple example of Data clustering and applying Principal Component Analysis (dimensionality reduction) to visualize the data in 2D. We Cluster the data in 3 main classes then we plot data in 2D (principal component 1 vs principal component 2) colored with clusters.

Input Data



Index	sepal length	sepal width	petal length	petal width
0	5.1	3.5	1.4	0.2
1	4.9	3	1.4	0.2
2	4.7	3.2	1.3	0.2
3	4.6	3.1	1.5	0.2
4	5	3.6	1.4	0.2
5	5.4	3.9	1.7	0.4
6	4.6	3.4	1.4	0.3
7	5	3.4	1.5	0.2
8	4.4	2.9	1.4	0.2
9	4.9	3.1	1.5	0.1
10	5.4	3.7	1.5	0.2
11	4.8	3.4	1.6	0.2
12	4.8	3	1.4	0.1
13	4.3	3	1.1	0.1
14	5.0	3.4	1.5	0.2

Data is clustered in 3 classes and plotted in PCA1 vs PCA2

