

# Introduction to data science & artificial intelligence (INF7100)

Arthur Charpentier

#5 Fourre-tout (python)

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# Principal Components (#271)

PCA, see [sklearn.decomposition.PCA](#)

```
1 > from sklearn.decomposition import PCA
```

see [Iris application](#)

# Clusters (#272)

*k*NN, see [sklearn.neighbors.KNeighborsClassifier](#)

```
1 > from sklearn.neighbors import KNeighborsClassifier
```

see [Knn](#) and [PCA](#)

Hierarchical clustering, see [scipy.cluster.hierarchy.dendrogram](#)

```
1 > from scipy.cluster.hierarchy import dendrogram
```

see [Plot Hierarchical Clustering Dendrogram](#)