Elementary KNIME programs
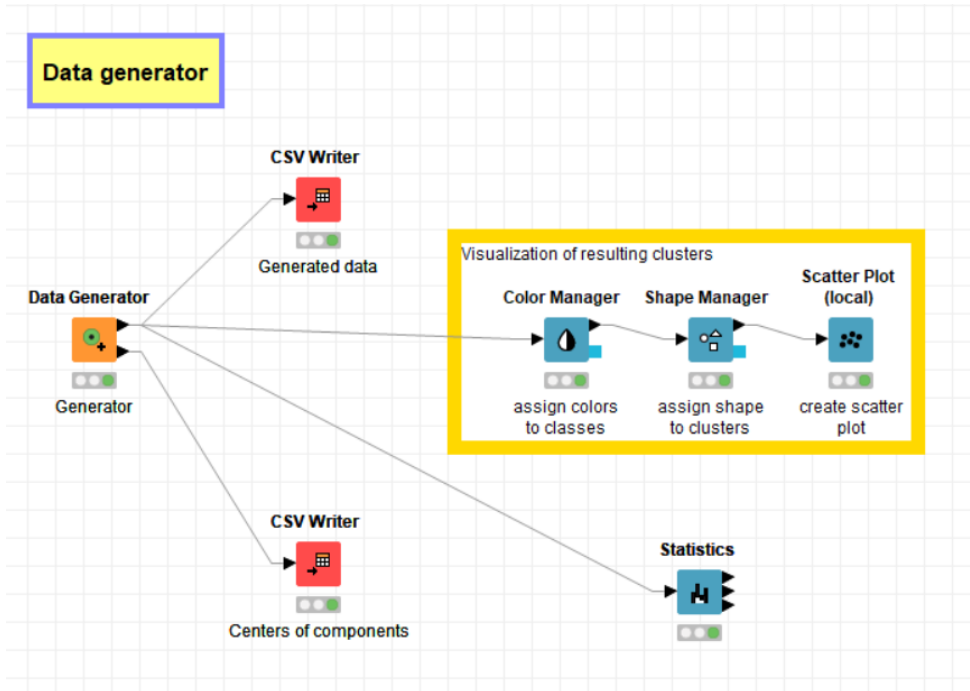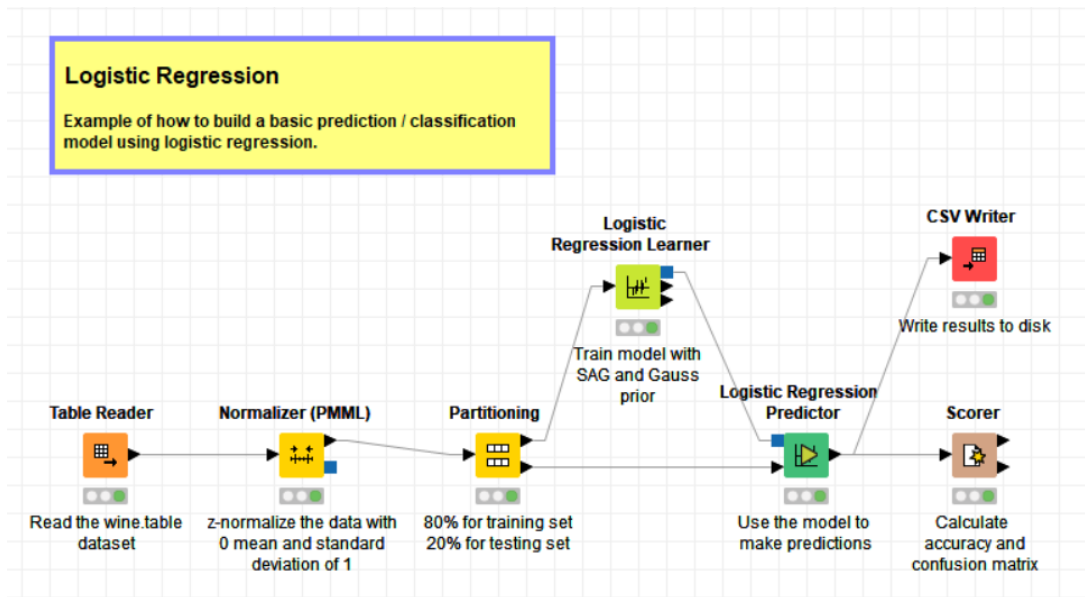
Generation of data

KNIME: Task00_dataGenerator

Logistic regression
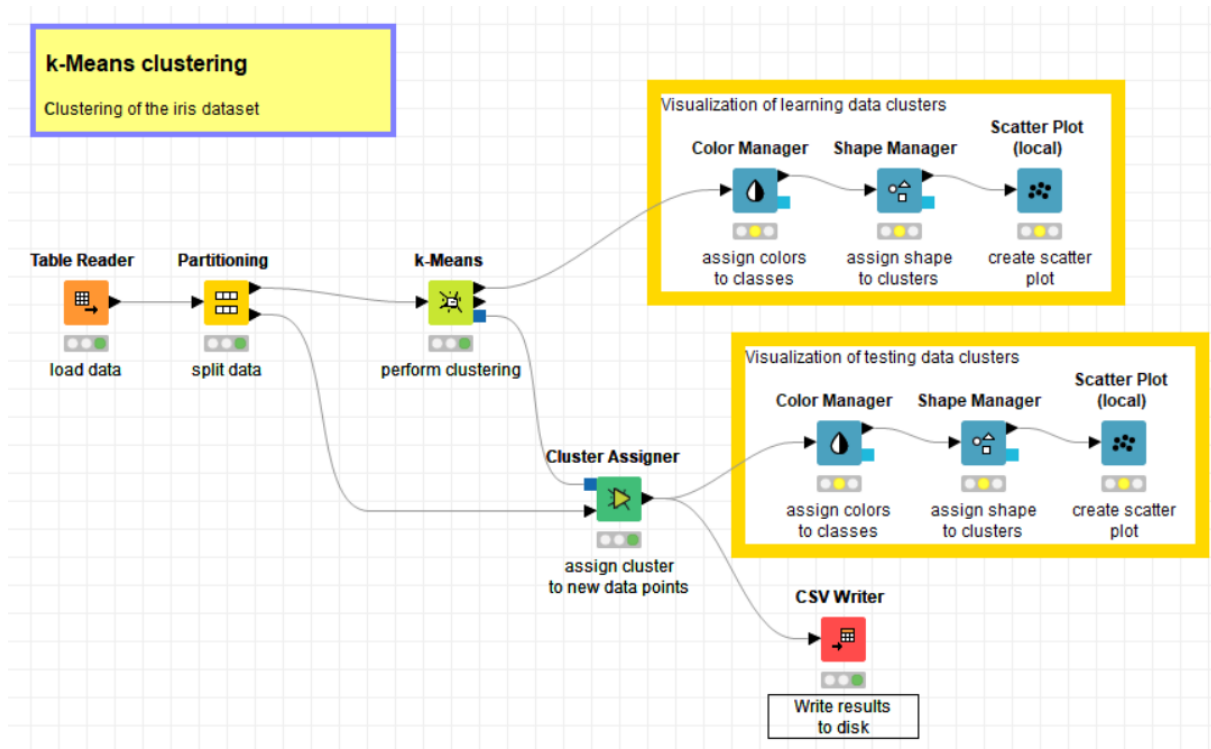
KNIME: Task01_Logistic_Regresion

Logistic Regression

Example of how to build a basic prediction / classification model using logistic regression.

Table Reader
Read the wine.table dataset

Normalizer (PMML)
z-normalize the data with 0 mean and standard deviation of 1

Partitioning
80% for training set 20% for testing set

Logistic Regression Learner
Train model with SAG and Gauss prior

CSV Writer
Write results to disk

Logistic Regression Predictor
Use the model to make predictions

Scorer
Calculate accuracy and confusion matrix
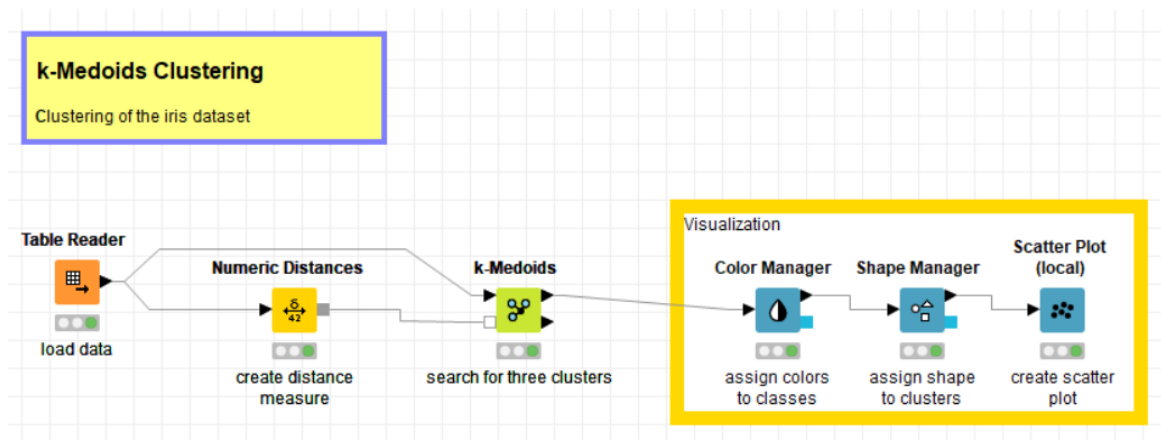
1 Clustering

1.1 K-means clustering

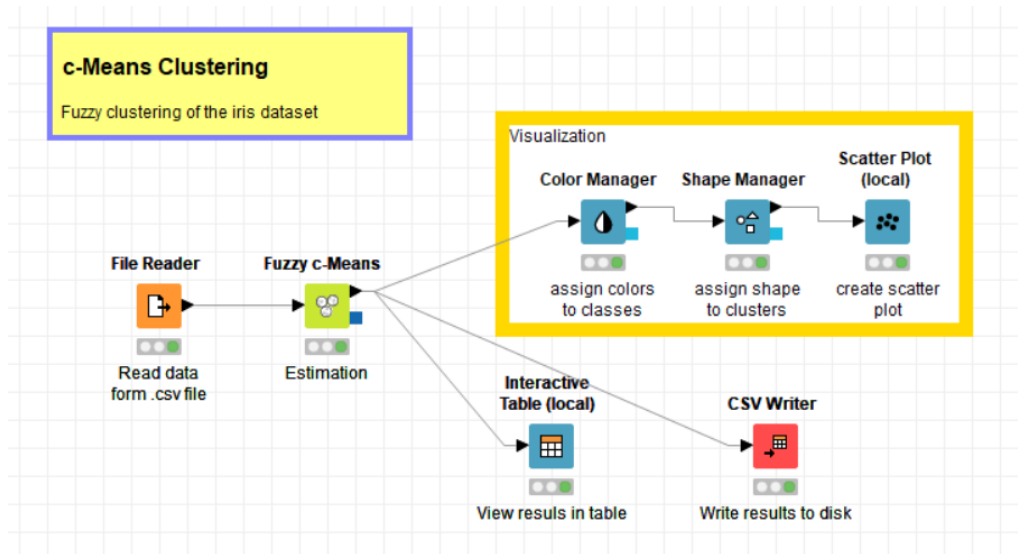KNIME: Task02_k-Means_Clustering

1.2 K-medoids clustering
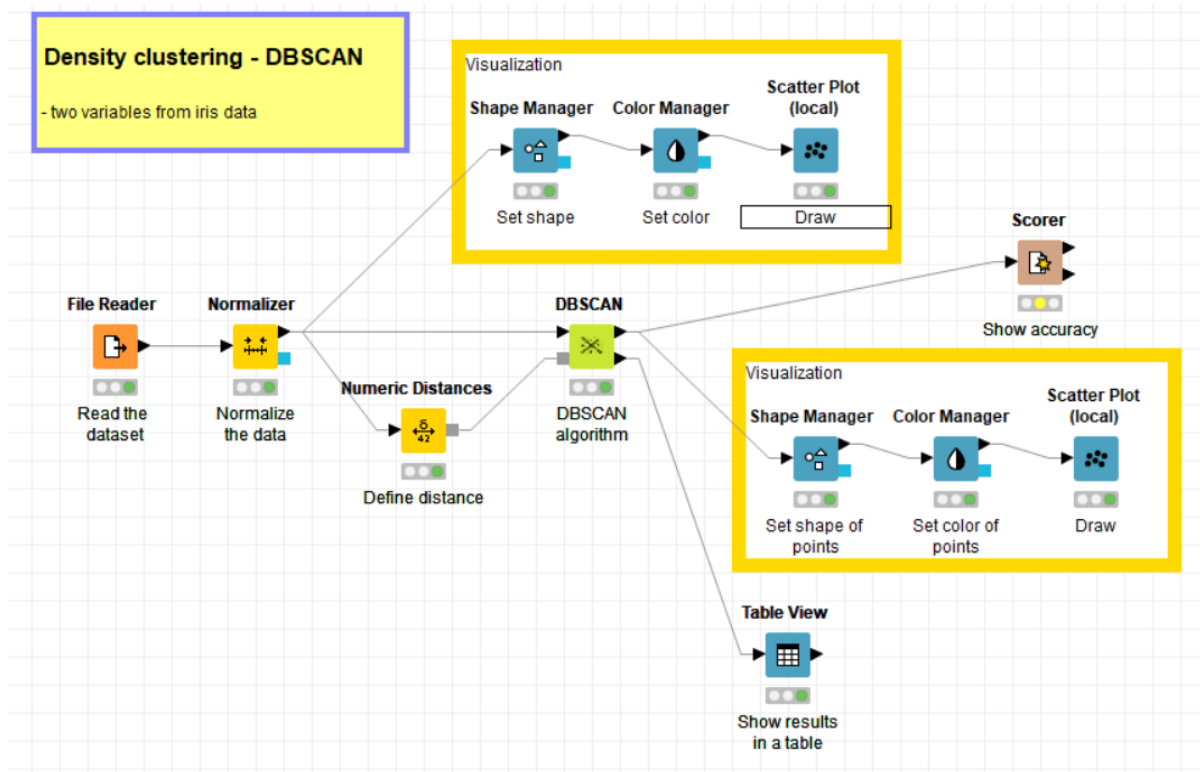
KNIME: Task03_k-Medoids_clustering

1.3 C-means clustering

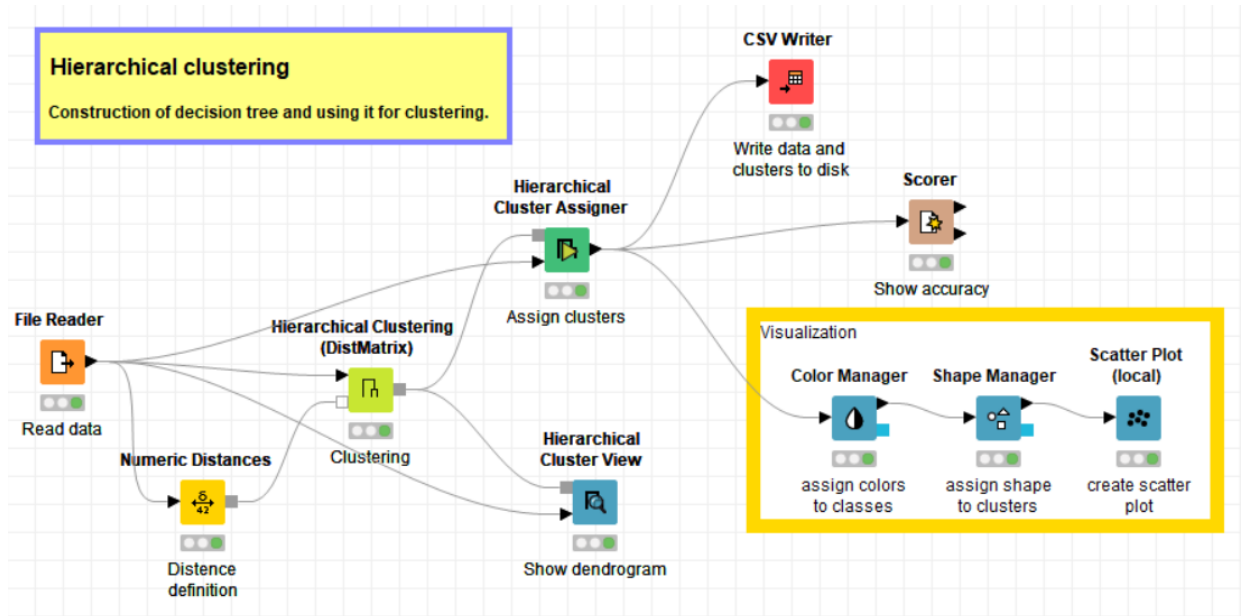KNIME: Task04_c-Means_Clustering

1.4 DBSCAN - density based clustering

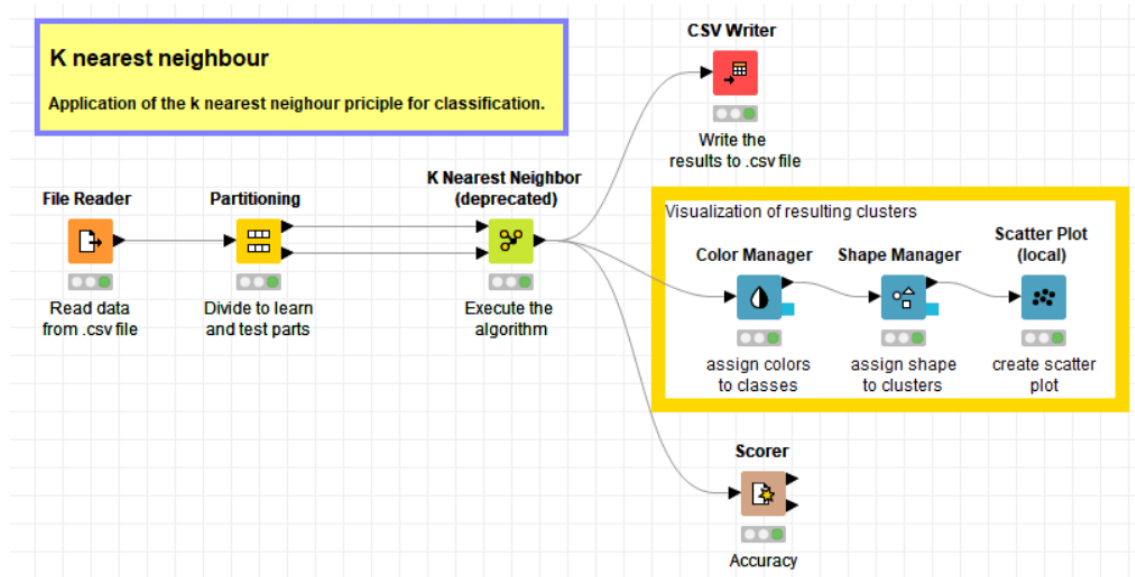KNIME: Task05_Density_Clustering

1.5 Hierarchical clustering
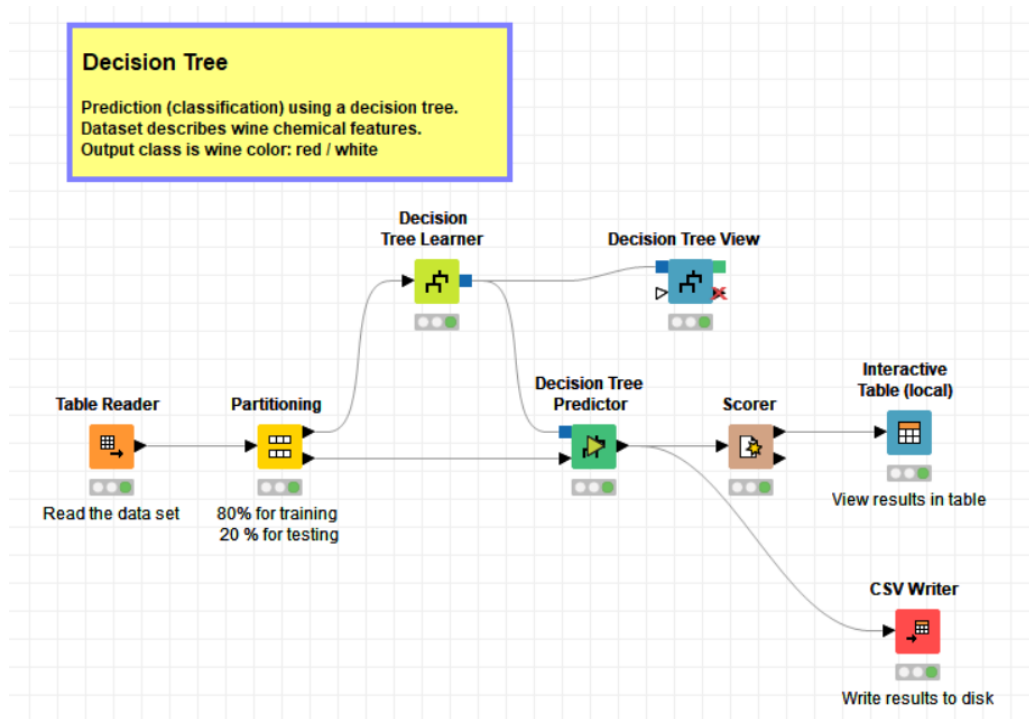
KNIME: Task06_Hierarchical_Clustrig

2 Classification

2.1 K-nearest neighbour classification

KNIME: Task07_k-NearNeighb

2.2 Decision tree classification

KNIME: Task08_Decision_Tree

2.3 Support vector machine classification

KNIME: Task09_Support_Vec_Mach