KNN (k nearest neighbors)

k nearest Neighbors classifies or predicts quantitative value for new samples using voting/average values of the nearest neighbors of the analyzed sample. Prior to model training all descriptors are normalized to standard deviation of 1 and mean value of 0.

Algorithm parameters include

- Distance (Euclidian distance, Pearson correlation)
- KNN neighbors
  The specified number of nearest neighbors will be used, unless this value is 0. In the later case this number will be optimized in range from 1 to **Max KNN neighbors**.
- Max KNN neighbors.
  Specifies maximum number of nearest neighbors for automatic determination of the **KNN neighbors** number.