

k-nearest: calculate the similarities in the data instances. Locate the k most analogous data instances and calculate the precision,

based on: euclidean: $d(p, q) = \sqrt{(q_1 - q_2)^2 + \dots + (q_n - p_n)^2} = \sqrt{\sum_{i=1}^n (q_i - p_i)^2}$, and manhattan: $d = \sum_{i=1}^n |x_i - y_i|$. In normalization attributions have

the potential to dominate in the contribution to the distance measure: rescale, based on: $x' = \frac{x - \min(x)}{\max(x) - \min(x)}$, $x' = \frac{x - \text{average}(x)}{\max(x) - \min(x)}$, and

$x' = \frac{x - \bar{x}}{\sigma}$. In the distance measure ascertain the chebyshev measure based on: minkowski: $D(X, Y) = \left(\sum_{i=1}^n |x_i - y_i|^p \right)^{1/p}$.

5.1,3.5,1.4,0.2,A	5.1,3.8,1.5,0.3,A	4.4,3.0,1.3,0.2,A	4.9,2.4,3.3,1.0,B	6.8,2.8,4.8,1.4,B	5.7,3.0,4.2,1.2,B	5.8,2.8,5.1,2.4,C	6.3,2.8,5.1,1.5,C
4.9,3.0,1.4,0.2,A	5.4,3.4,1.7,0.2,A	5.1,3.4,1.5,0.2,A	6.6,2.9,4.6,1.3,B	6.7,3.0,5.0,1.7,B	5.7,2.9,4.2,1.3,B	6.4,3.2,5.3,2.3,C	6.1,2.6,5.6,1.4,C
4.7,3.2,1.3,0.2,A	5.1,3.7,1.5,0.4,A	5.0,3.5,1.3,0.3,A	5.2,2.7,3.9,1.4,B	6.0,2.9,4.5,1.5,B	6.2,2.9,4.3,1.3,B	6.5,3.0,5.5,1.8,C	7.7,3.0,6.1,2.3,C
4.6,3.1,1.5,0.2,A	4.6,3.6,1.0,0.2,A	4.5,2.3,1.3,0.3,A	5.0,2.0,3.5,1.0,B	5.7,2.6,3.5,1.0,B	5.1,2.5,3.0,1.1,B	7.7,3.8,6.7,2.2,C	6.3,3.4,5.6,2.4,C
5.0,3.6,1.4,0.2,A	5.1,3.3,1.7,0.5,A	4.4,3.2,1.3,0.2,A	5.9,3.0,4.2,1.5,B	5.5,2.4,3.8,1.1,B	5.7,2.8,4.1,1.3,B	7.7,2.6,6.9,2.3,C	6.4,3.1,5.5,1.8,C
5.4,3.9,1.7,0.4,A	4.8,3.4,1.9,0.2,A	5.0,3.5,1.6,0.6,A	6.0,2.2,4.0,1.0,B	5.5,2.4,3.7,1.0,B	6.3,3.3,6.0,2.5,C	6.0,2.2,5.0,1.5,C	6.0,3.0,4.8,1.8,C
4.6,3.4,1.4,0.3,A	5.0,3.0,1.6,0.2,A	5.1,3.8,1.9,0.4,A	6.1,2.9,4.7,1.4,B	5.8,2.7,3.9,1.2,B	5.8,2.7,5.1,1.9,C	6.9,3.2,5.7,2.3,C	6.9,3.1,5.4,2.1,C
5.0,3.4,1.5,0.2,A	5.0,3.4,1.6,0.4,A	4.8,3.0,1.4,0.3,A	5.6,2.9,3.6,1.3,B	6.0,2.7,5.1,1.6,B	7.1,3.0,5.9,2.1,C	5.6,2.8,4.9,2.0,C	6.7,3.1,5.6,2.4,C
4.4,2.9,1.4,0.2,A	5.2,3.5,1.5,0.2,A	5.1,3.8,1.6,0.2,A	6.7,3.1,4.4,1.4,B	5.4,3.0,4.5,1.5,B	6.3,2.9,5.6,1.8,C	7.7,2.8,6.7,2.0,C	6.9,3.1,5.1,2.3,C
4.9,3.1,1.5,0.1,A	5.2,3.4,1.4,0.2,A	4.6,3.2,1.4,0.2,A	5.6,3.0,4.5,1.5,B	6.0,3.4,4.5,1.6,B	6.5,3.0,5.8,2.2,C	6.3,2.7,4.9,1.8,C	5.8,2.7,5.1,1.9,C
5.4,3.7,1.5,0.2,A	4.7,3.2,1.6,0.2,A	5.3,3.7,1.5,0.2,A	5.8,2.7,4.1,1.0,B	6.7,3.1,4.7,1.5,B	7.6,3.0,6.6,2.1,C	6.7,3.3,5.7,2.1,C	6.8,3.2,5.9,2.3,C
4.8,3.4,1.6,0.2,A	4.8,3.1,1.6,0.2,A	5.0,3.3,1.4,0.2,A	6.2,2.2,4.5,1.5,B	6.3,2.3,4.4,1.3,B	4.9,2.5,4.5,1.7,C	7.2,3.2,6.0,1.8,C	6.7,3.3,5.7,2.5,C
4.8,3.0,1.4,0.1,A	5.4,3.4,1.5,0.4,A	7.0,3.2,4.7,1.4,B	5.6,2.5,3.9,1.1,B	5.6,3.0,4.1,1.3,B	7.3,2.9,6.3,1.8,C	6.2,2.8,4.8,1.8,C	6.7,3.0,5.2,2.3,C
4.3,3.0,1.1,0.1,A	5.2,4.1,1.5,0.1,A	6.4,3.2,4.5,1.5,B	5.9,3.2,4.8,1.8,B	5.5,2.5,4.0,1.3,B	6.7,2.5,5.8,1.8,C	6.1,3.0,4.9,1.8,C	6.3,2.5,5.0,1.9,C
5.8,4.0,1.2,0.2,A	5.5,4.2,1.4,0.2,A	6.9,3.1,4.9,1.5,B	6.1,2.8,4.0,1.3,B	5.5,2.6,4.4,1.2,B	7.2,3.6,6.1,2.5,C	6.4,2.8,5.6,2.1,C	6.5,3.0,5.2,2.0,C
5.7,4.4,1.5,0.4,A	4.9,3.1,1.5,0.1,A	5.5,2.3,4.0,1.3,B	6.3,2.5,4.9,1.5,B	6.1,3.0,4.6,1.4,B	6.5,3.2,5.1,2.0,C	7.2,3.0,5.8,1.6,C	6.2,3.4,5.4,2.3,C
5.4,3.9,1.3,0.4,A	5.0,3.2,1.2,0.2,A	6.5,2.8,4.6,1.5,B	6.1,2.8,4.7,1.2,B	5.8,2.6,4.0,1.2,B	6.4,2.7,5.3,1.9,C	7.4,2.8,6.1,1.9,C	5.9,3.0,5.1,1.8,C
5.1,3.5,1.4,0.3,A	5.5,3.5,1.3,0.2,A	5.7,2.8,4.5,1.3,B	6.4,2.9,4.3,1.3,B	5.0,2.3,3.3,1.0,B	6.8,3.0,5.5,2.1,C	7.9,3.8,6.4,2.0,C	
5.7,3.8,1.7,0.3,A	4.9,3.1,1.5,0.1,A	6.3,3.3,4.7,1.6,B	6.6,3.0,4.4,1.4,B	5.6,2.7,4.2,1.3,B	5.7,2.5,5.0,2.0,C	6.4,2.8,5.6,2.2,C	