

Cours - Apprentissage

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1. Algorithmes

1.1. Local Outlier Factor (LOF) (clustering)

Ca ressemble aux k -NN.

Définition 1.1.1: Local density

$$\mu(x_i) = \left(\frac{1}{|(\mathcal{N})_k(x_i)|} \sum_{x_j \in \mathcal{N}_k(x_i)} d_k(x_i, x_j) \right)^{-1}$$

with $N_k(x_i)$ is the neighborhood of x_i and d_k is called *reachability distance*

$$\text{LOF}_k(x_i) = \frac{\frac{1}{|N_k(x_i)|} \sum_{x_j \in N_k(x_i)} \mu(x_j)}{\mu(x_i)}$$