2 Methoden for Namiering

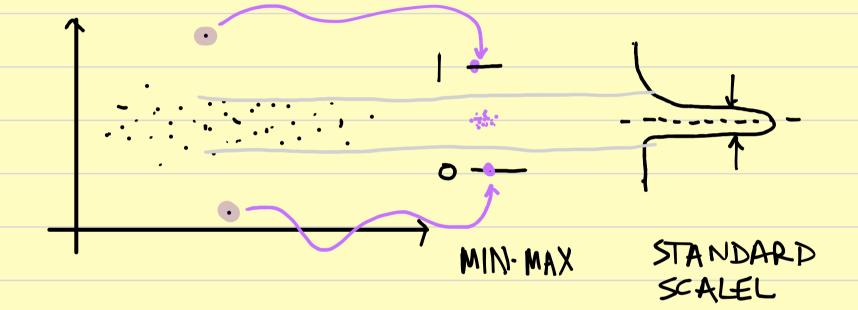
MIN-MAX SCALER

STANDARD SCALER

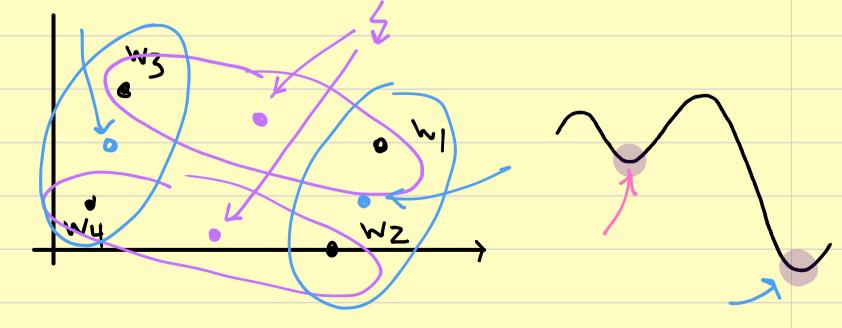
$$x_i^* = \frac{x_i - x_{min}}{x_{max} - x_{min}}$$

1 SCHNELL

- + ROBUST
- € ANFALLIG. GGU. AUBREIBER € LANGSAMER



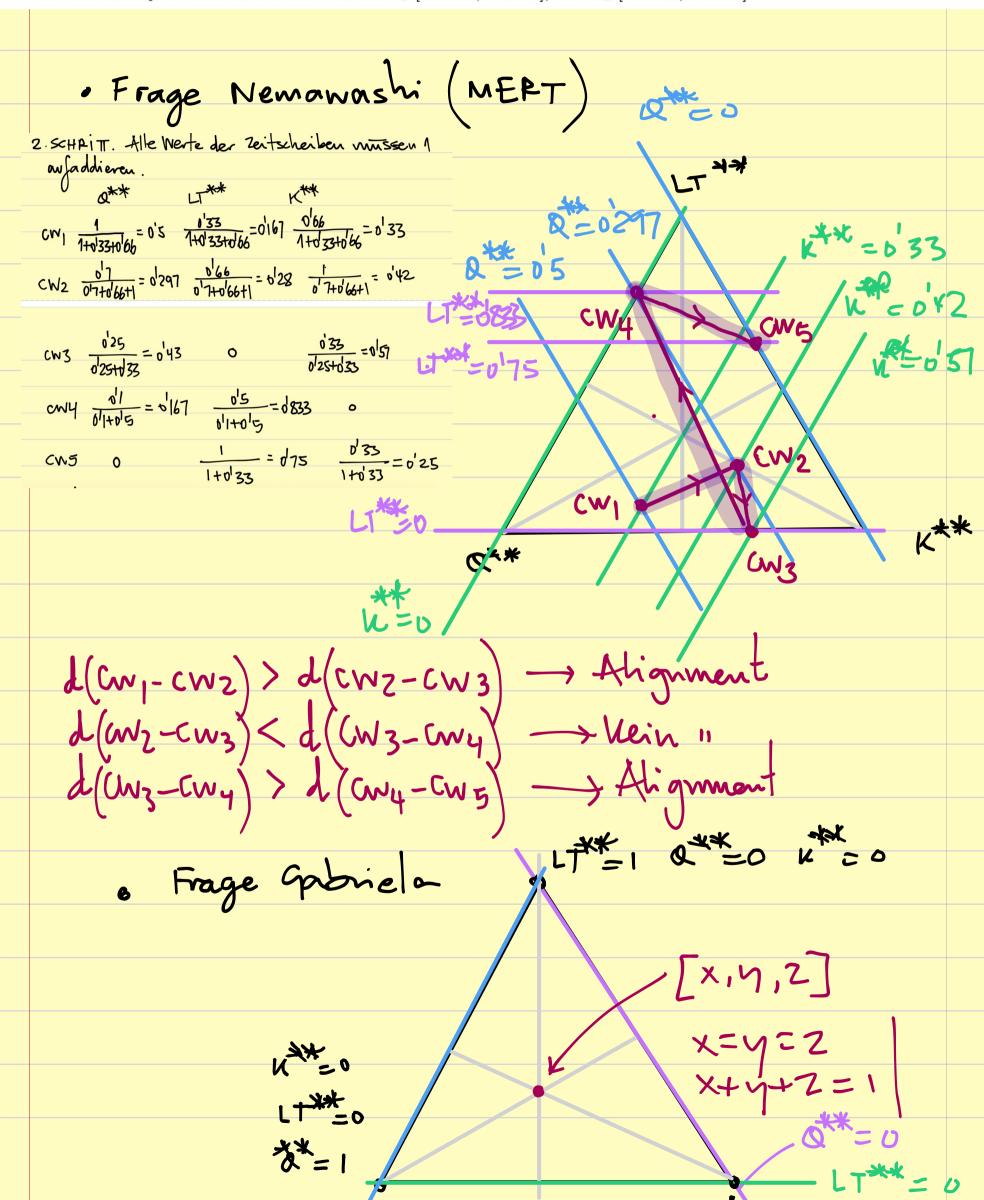
christian. Kann es sein, dass es mehrere Minima gibt bei K. Nearest Neighbours?



4. Ex (20 Points): Calculate the position of 2 warehouses for the plants with the X, Y positions using known clustering algorithms:

$$[X, Y] = \{ \text{Plant 1 } (2, 3), \text{Plant 2 } (0, 2), \text{Plant 3 } (6, 2), \text{Plant 4 } (6, 0) \}$$

. Please start your calculation with clusters C_1 [Plant1, Plant3], and C_2 [Plant2, Plant4].



xi, yi)

$$\int_{b}^{a} a + \int_{b}^{a} a = \frac{a}{b}$$

$$tgx = \frac{yi-\overline{y}}{xi-\overline{x}} \cdot \frac{xi-\overline{x}}{xi-\overline{x}} = \frac{(yi-\overline{y})(xi-\overline{x})}{(xi-\overline{x})^2}$$

yi-y

$$b = \sum_{i=1}^{n} \frac{(y_i - \overline{y})(x_i - \overline{x})}{(x_i - \overline{x})^2}$$

$$(\bar{x}, \bar{y})$$
 (\bar{x}, \bar{y})
 $\times i - \bar{x}$

$$b = \sum_{x_i - \overline{x}} \frac{(y_i - \overline{y})(x_i - \overline{x})}{(x_i - \overline{x})^2}$$