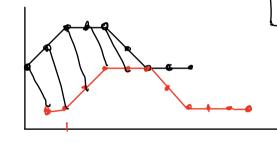
DTW - Pynamic Time Warping

maccadouncemen pagob

- 1) Megureura u Health
- 2) Hemequisierance gamente
- 3) . .
- 1) Menjurenene (KNN, Dbscan,...)
- 2) He mempuneaux RF, Boosting

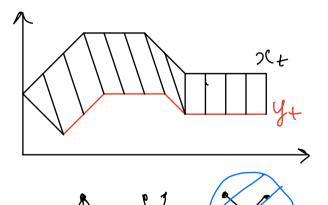
 $g(x, y) = \lambda$

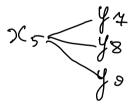


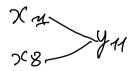
Typodrembe conduct. Memprix

- 1) Re grum colur
- 2) Henrumenuno guos

rolgob passion







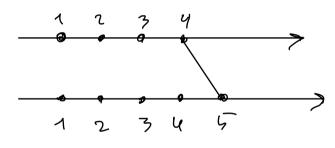
Onn. 1) Kanegerii zu-m ogenero prega concernaturus c ogenun um Soviel zu-man gpyroro prega

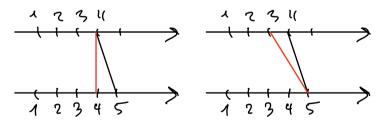
2)
$$\chi(i_1) \sim y(j_1)$$

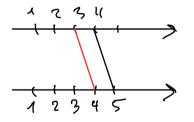
 $\chi(i_2) \sim y(j_2)$ $u i_2 > i_1 = y_2 > j_1$

$$D(x,y) = \min \sum_{i \sim j} |x(i) - y(j)|$$

Tynnyun Ferencung





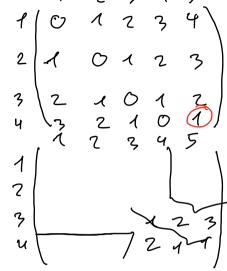


$$D(\alpha, b) = 1 \times (\alpha) - y(b) + \min \{$$
Charleso & -meb
Paga \times "Chargeno"
$$D(\alpha - 1, b),$$

$$D(\alpha - 1, b - 1)$$

O(a b)	4
1) Unuguallizelizeld	1 (O 2 1 3 2 4 3
	3 2

2) 21 cagno mureer



Luyuweveno.

1) Kyrugop

2) Dazpeneemuue disejumula

Hrmue wenus;

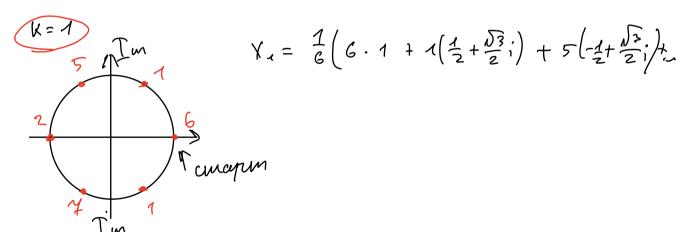
1 Mempresa & Maccelly.

2) — ((— b knacmejrujævelle

3) Nouck coccucux progob

Ducup. npecop. Lypue

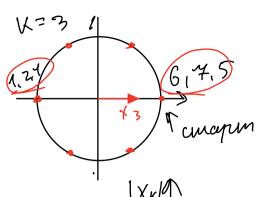
Uno genoem? Huxogum mansalle boyrancemuve recomound,



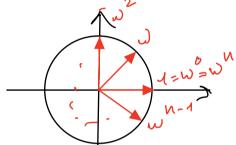
6, 2 cmapm

$$7 = \frac{1}{6} \left((6+2) \cdot 1 + (1+4) \cdot (-\frac{1}{2} + \sqrt{\frac{3}{2}}) \right) + (5+1)(-\frac{1}{2} - \sqrt{\frac{3}{2}})$$

Curapun



 $W = \text{cos}(\frac{2\pi}{n}) + i \sin(\frac{2\pi}{n})$ $W = \exp(\frac{2\pi}{n}) + i \sin(\frac{2\pi}{n})$ $W = \exp(\frac{2\pi}{n}) + i \sin(\frac{2\pi}{n})$



$$W = \cos(\frac{2\pi}{n}) + i \sin(\frac{2\pi}{n})$$

 $W = \exp(\frac{2\pi}{n}i)$

$$X_{K} = \frac{1}{N} \sum_{v=0}^{N-1} x_{v} w^{v} = \frac{1}{N} \sum_{v=0}^{N-1} x_{v} e_{X} p(\frac{2\pi}{N} r_{K} i)$$

FFT

Divide and conquer (mergesort)

 $\begin{pmatrix} \chi_1 \\ \chi_2 \\ \chi_3 \\ \chi \end{pmatrix} = \begin{pmatrix} \chi_0 \\ \chi_1 \\ \chi_2 \\ \chi_3 \\ \chi_u \\ \chi \zeta \leftarrow \end{pmatrix}$