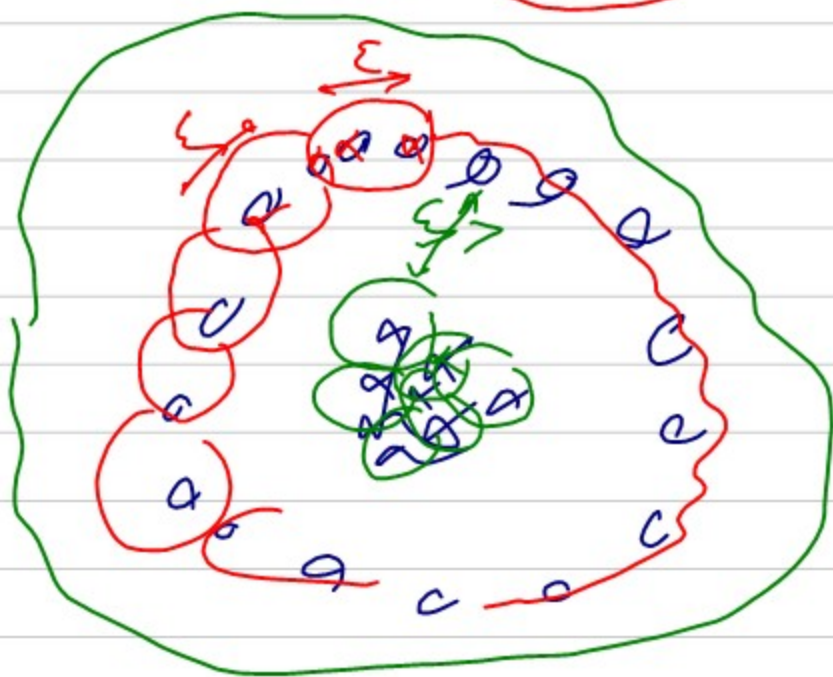
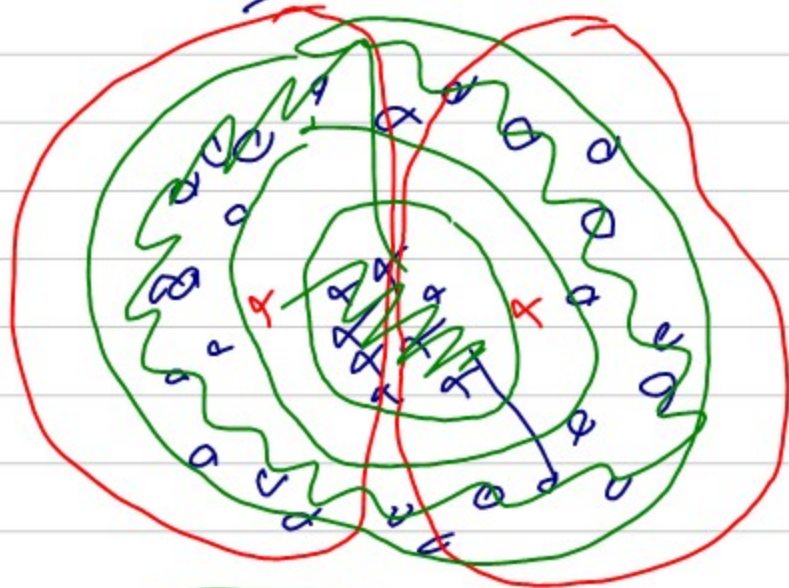


Session 6

جدد

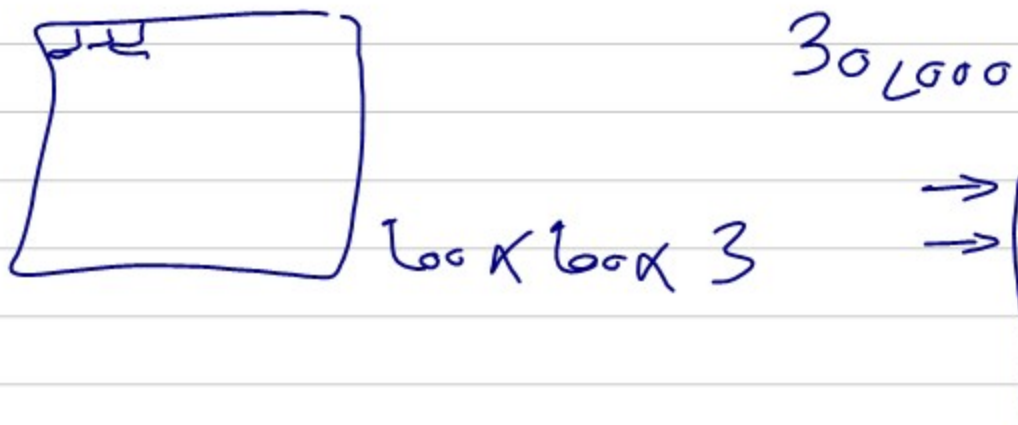


DBSCAN

$\epsilon$  Hyperparameter



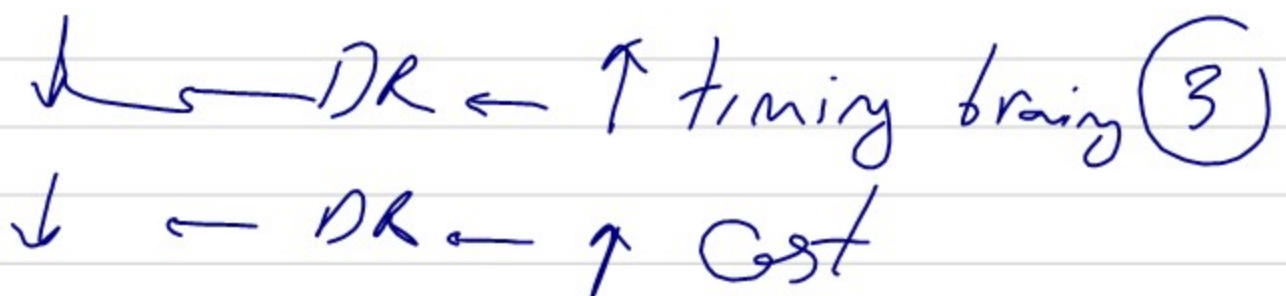
# Dimensionality Reduction (DR)



15 x 15 x 3

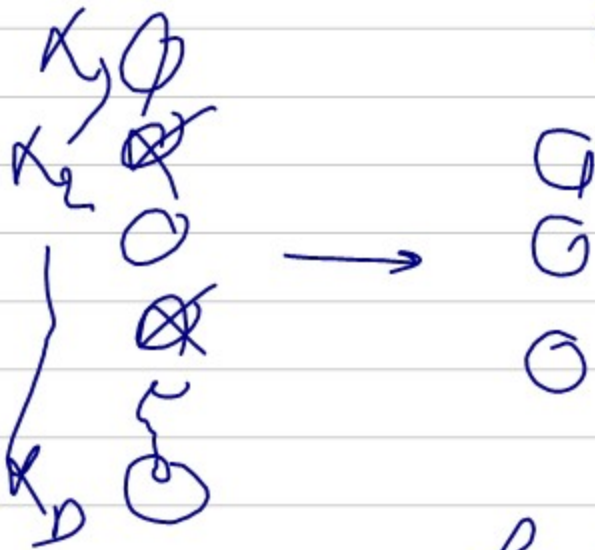
Visualization (1)

2D, 3D

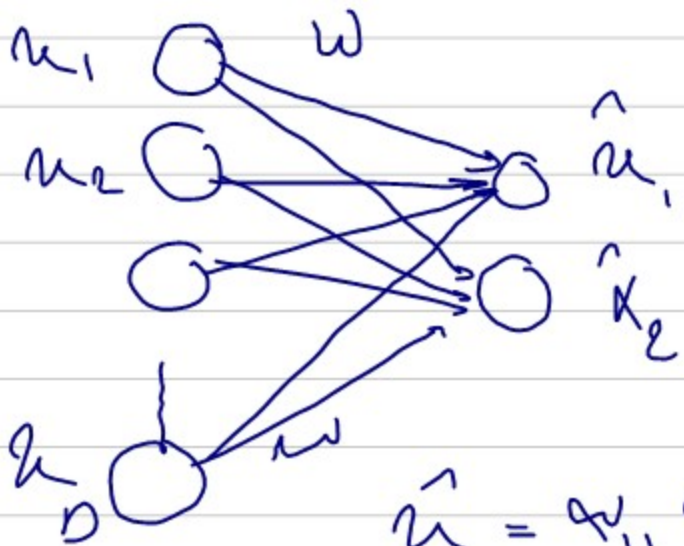


DR School,

## Feature Selection (1)



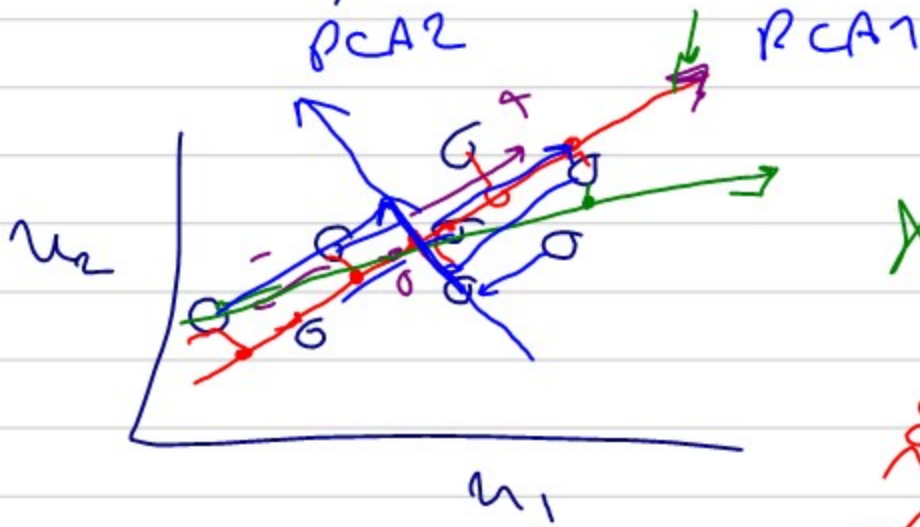
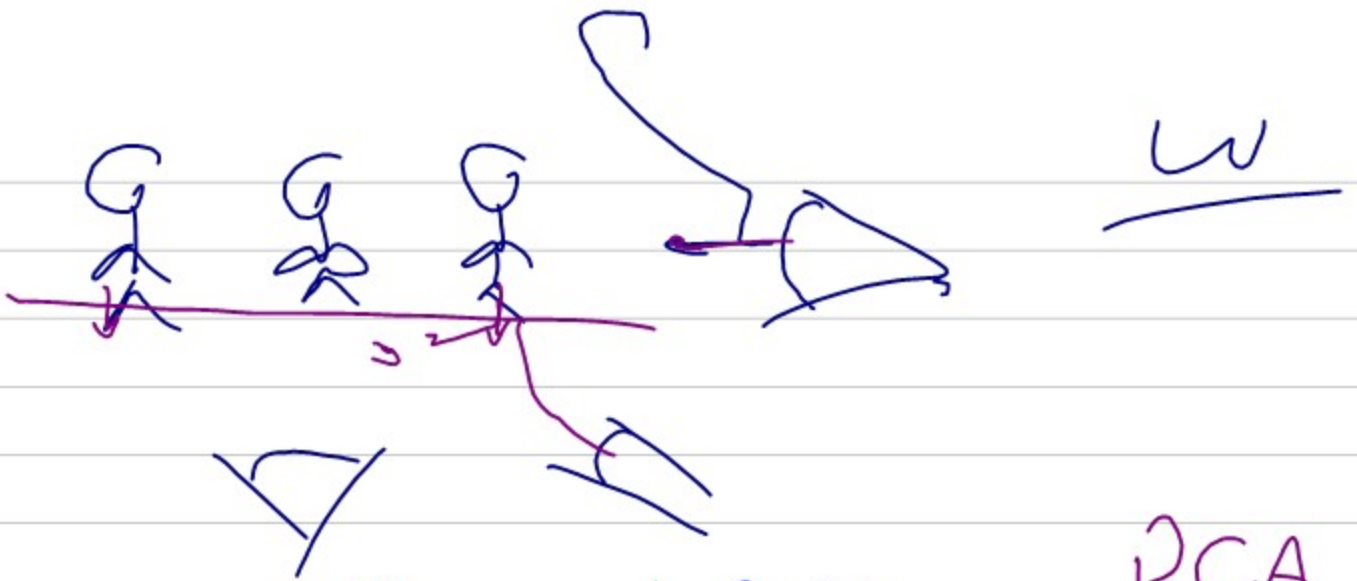
## Feature Extraction (2)



$$\hat{u}_1 = w_{11}u_1 + w_{21}u_2 + \dots + w_{01}u_0$$

$\hat{u}_0$

$$\hat{u} = W u$$



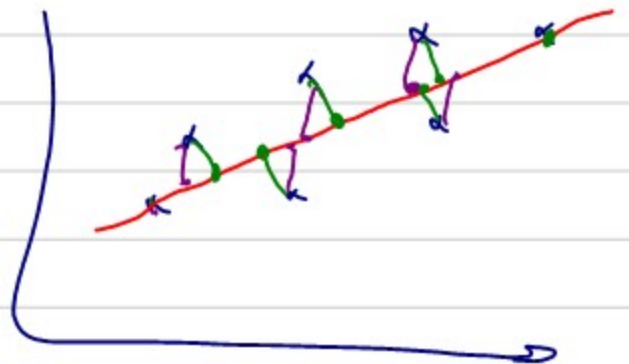
PCA

$$X = \begin{bmatrix} u_1 & u_2 \end{bmatrix}$$

$$X = \begin{bmatrix} \text{PCA}_1 & \text{PCA}_2 \end{bmatrix}$$

$$X_{N \times D} \begin{bmatrix} V_{D \times k} \\ D \times k \\ 100 \times 2 \end{bmatrix} = \hat{X}_{N \times k}$$

Reg, PCA

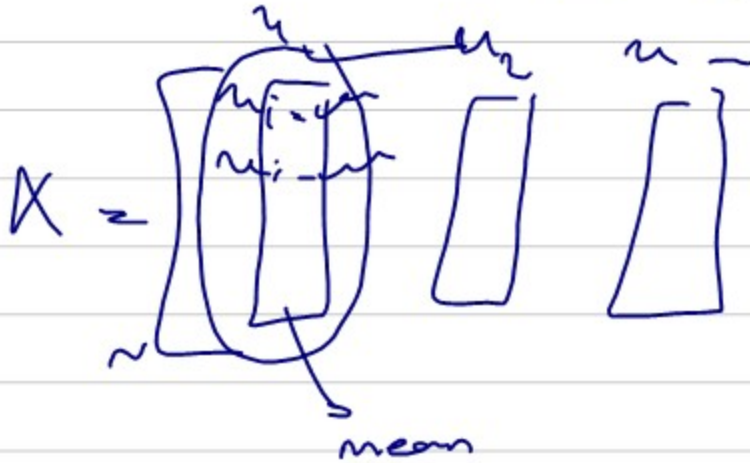




PCA: الفتح

(1)

mean center



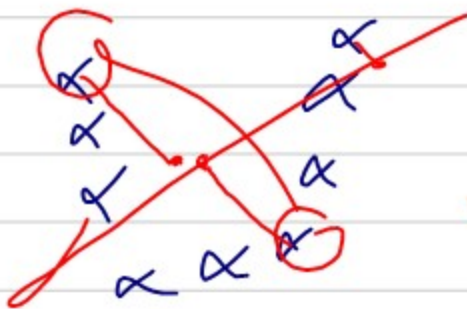
$$\sqrt{\frac{1}{N} \sum_{i=1}^N x_i^2}$$

$K_{-}$

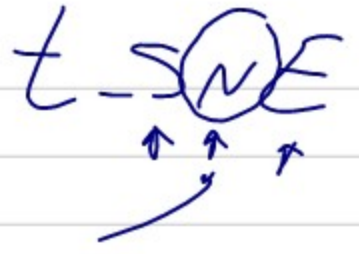
(2) استخراج سائیس

(3) به طریقی و مستطی

(4) رتبه‌بندی به طریقی و مستطی



PCA: الفتح  
 دایره‌های  
 =



لچکلی

→ استخراج اطلاعات از داده های مترجمی بصورت  
→ همگونی است یعنی حس را به ما

داده مترجمی و کیفی

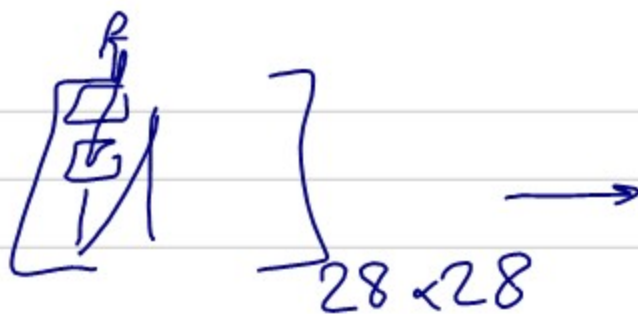


$U_{MAP}$   
uniform

→ عکس را با این روش می توانیم  
→ عملی

→ روش مبتنی بر SNB

→ پای داده های مترجمی

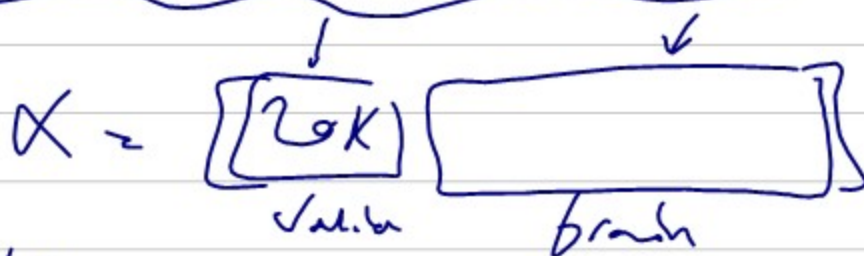
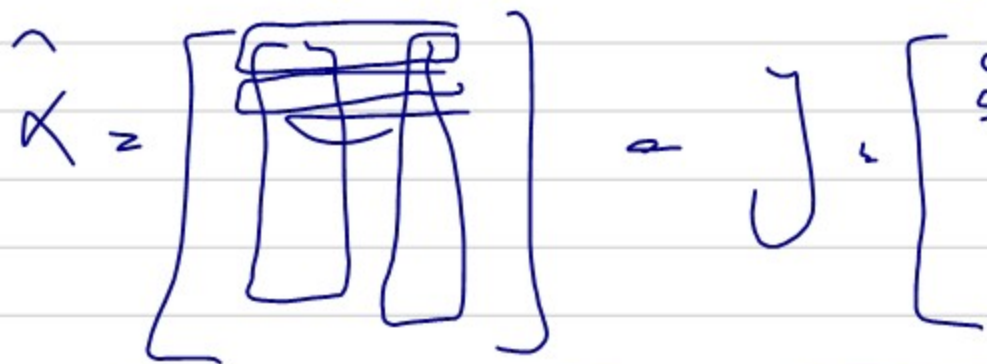


$P_1, P_2 \dots P_{28}$



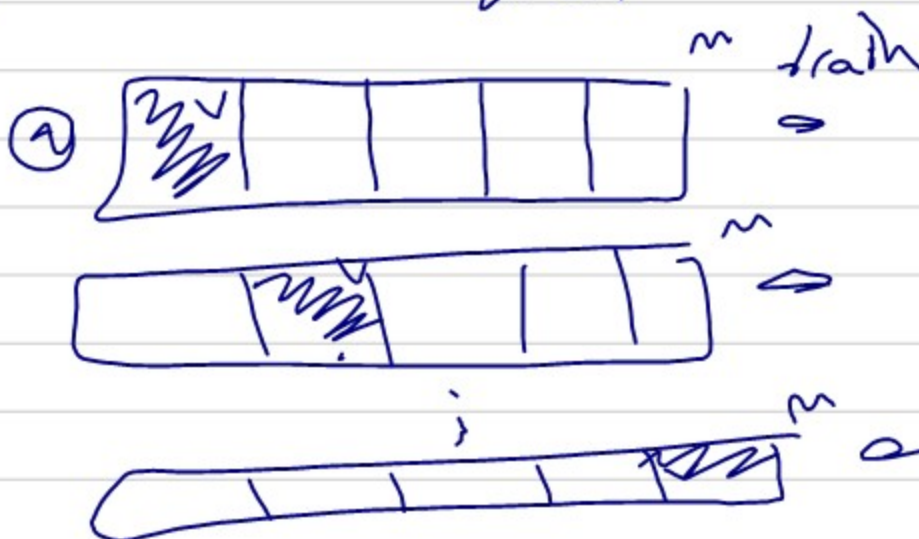
$P_{CA1}, P_{CA2}$

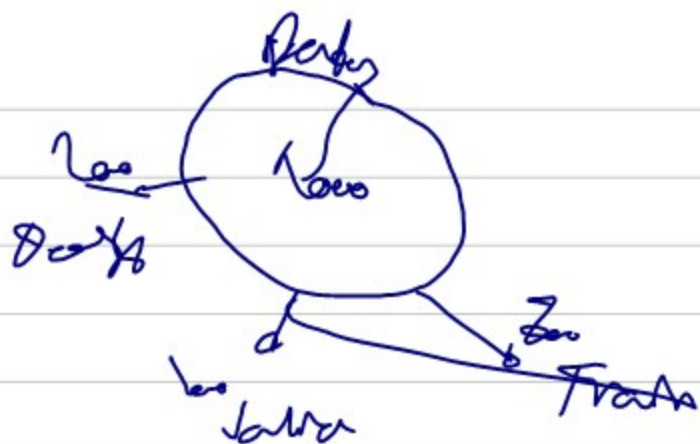
class



max acc

5fold

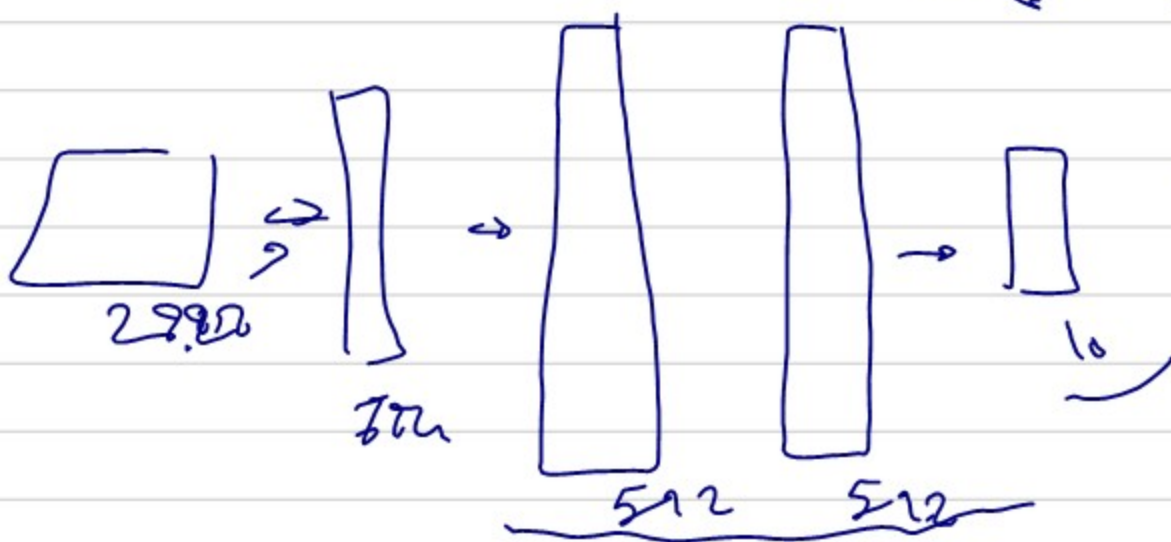




Early Fracture  
 not yet

overlapping  $\bar{C}$   $\leftarrow$  valid

subsequent



test