Curse of Dimensionality

binary features = fr = # datapoints = 23

10-d => # datapoints => 21"

dimensione 1 × overfitting 1 -> model fertoomancel

2) Distance fins - Enclidean distance

NLP > Hamming | Cosine Similarity

Feature Extraction
(PCA)

Fedure Selection

Subs of the the forms

Rooms Goodry Price shaps of flat

di > d2

Rooms will

Cyrocey Shops will be higher variance - higher info dropped washrooms

Rooms

Rooms

Rooms

Rooms Feature Extraction Projection of X on $\mathcal{A} = \overline{\mathcal{A}} \cdot \overline{X} = \overline{\mathcal{A}} \times \overline{X}$

 $MOF = \sum_{i=1}^{\infty} (x-u)^{2} \Rightarrow \sum_{i=1}^{\infty} (u x_{i} - u x_{i})^{2} mean$ $= \sum_{i=1}^{\infty} (x-u)^{2} \Rightarrow \sum_{i=1}^{\infty} (u x_{i} - u x_{i})^{2} mean$ $= \sum_{i=1}^{\infty} (x-u)^{2} \Rightarrow \sum_{i=1}^{\infty} (u x_{i} - u x_{i})^{2} mean$ $= \sum_{i=1}^{\infty} (x-u)^{2} \Rightarrow \sum_{i=1}^{\infty} (u x_{i} - u x_{i})^{2} mean$ $= \sum_{i=1}^{\infty} (x-u)^{2} \Rightarrow \sum_{i=1}^{\infty} (u x_{i} - u x_{i})^{2} mean$ $= \sum_{i=1}^{\infty} (x-u)^{2} \Rightarrow \sum_{i=1}^{\infty} (u x_{i} - u x_{i})^{2} mean$ $= \sum_{i=1}^{\infty} (x-u)^{2} \Rightarrow \sum_{i=1}^{\infty} (u x_{i} - u x_{i})^{2} mean$ $= \sum_{i=1}^{\infty} (x-u)^{2} \Rightarrow \sum_{i=1}^{\infty} (u x_{i} - u x_{i})^{2} mean$ $= \sum_{i=1}^{\infty} (x-u)^{2} \Rightarrow \sum_{i=1}^{\infty} (u x_{i} - u x_{i})^{2} mean$ $= \sum_{i=1}^{\infty} (x-u)^{2} \Rightarrow \sum_{i=1}^{\infty} (u x_{i} - u x_{i})^{2} mean$ $= \sum_{i=1}^{\infty} (x-u)^{2} \Rightarrow \sum_{i=1}^{\infty} (u x_{i} - u x_{i})^{2} mean$ $= \sum_{i=1}^{\infty} (x-u)^{2} \Rightarrow \sum_{i=1}^{\infty} (u x_{i} - u x_{i})^{2} mean$ $= \sum_{i=1}^{\infty} (x-u)^{2} \Rightarrow \sum_{i=1}^{\infty} (u x_{i} - u x_{i})^{2} mean$ $= \sum_{i=1}^{\infty} (x-u)^{2} \Rightarrow \sum_{i=1}^{\infty} (u x_{i} - u x_{i})^{2} mean$ $= \sum_{i=1}^{\infty} (x-u)^{2} \Rightarrow \sum_{i=1}^{\infty} (u x_{i} - u x_{i})^{2} mean$ $= \sum_{i=1}^{\infty} (x-u)^{2} \Rightarrow \sum_{i=1}^{\infty} (x-u)^{$

1-> Mean Centering

2 - Co-variance Matrix

f, [vare cov(fife) cov(fife)

to cov(fife) varte cov(fife)

to cov(fife) cov(fife) varte

3 - Eigen decomposition

f, f2 f3

1 / / / /

pc2 pc3

Snfo comparison PC(>PC2 > PC3

N_components=1

-(PCI