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[OS(X,4)=1

DSC1-633

ASSIGNMENT - 1

87

$$X = (1,1,1,1)$$
 and $y = (3,3,3,3)$

Tolind

Losine similarity

 $\chi \chi y = 1 \times 3 + 1 \times 3 + 1 \times 3 + 1 \times 3$ = 12

My = 12

$$||\chi|| = \sqrt{\frac{12 + 1^2 + 1^2 + 1^2}{3^2 + 3^2 + 3^2 + 3^2}} = 2$$

$$||\chi|| = \sqrt{\frac{3^2 + 3^2 + 3^2 + 3^2}{3^2 + 3^2 + 3^2}} = 6$$

 $= \frac{12}{6 \times 2}$

(Osine Limitarity =)

correlection coefficient

$$r = n \xi x y - \xi x \xi y$$

$$\left[n \xi x^2 - (\xi x)^2 \right] \left[n \xi y^2 - (\xi y)^2 \right]$$

$$r = 4 \times 12 - 4(12)$$

$$\sqrt{12(4)^2 - (4)^2} \left[42(36) - (36)^2\right]$$

$$\frac{\chi = 1 | 1 |}{y = 3333}$$

Euclidean distance
=
$$\sqrt{(1-3)^2 + (1-3)^2 + (1-3)^2}$$

Quuidoan Distance = 4

 $\chi = 0, 1, 0, 1, 0, 1$ y = 1, 0, 1, 0, 1, 0

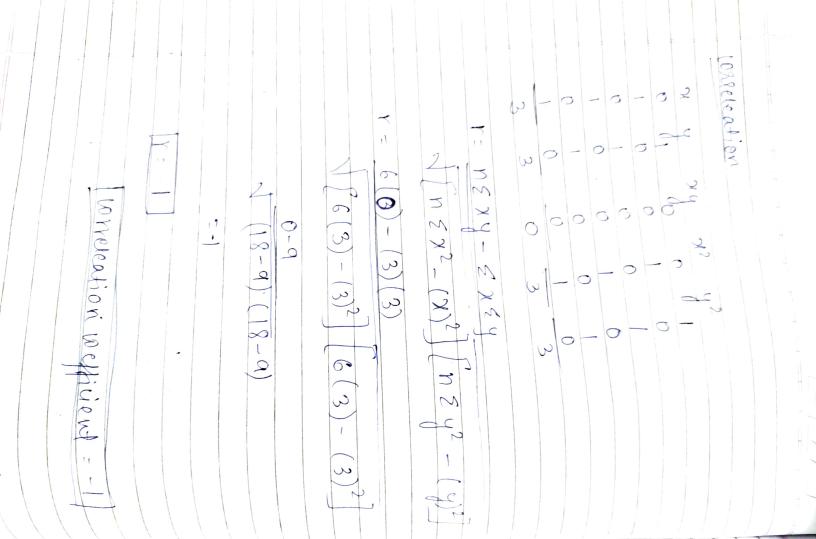
Losine similanty

(08 (7, y) = x. y ||x|| 1 | | | | | |

xyy = 0x1 + 1x0 + 0x1 + 1x0 + 0x1 + 1x0

 $||\chi|| = \sqrt{\frac{0^2 + 1^2 + 0^2 + 1^2 + 0^2 + 1^2}{12 + 0^2 + 1^2 + 0^2 + 1^2 + 0^2}} = 1.73$

0 1.73×1.73 = 0



$$\frac{1}{10} = \frac{1}{10} = \frac{1}{10}$$

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Taccard Similarity

