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Class: BSE-2(B)

Enrollment: 02-131222-036

QNO.01

Solution:

For 1st Iteration:

$$PR(A) = 1 - d + d\left(\frac{PR(D)}{1}\right)$$

$$\frac{PR(A) = 1 - 0.85 + 0.85(1)}{PR(A) = 1}$$

$$PR(B) = 1 - d + d \left(\frac{PR(A)}{2} \right)$$

$$PR(B) = 1 - 0.85 + 0.85(\frac{1}{2})$$
 $PR(B) = 0.575$

$$PR(C) = 1 - d + d\left(\frac{PR(B)}{2}\right)$$

$$\frac{PR(C) = 1 - 0.85 + 0.85(\frac{1}{2})}{PR(C) = 0.575}$$

$$PR(D) = 1 - d + d \left(\frac{PR(P)}{2} + \frac{PR(B)}{2} + \frac{PR(E)}{1} \right)$$

$$PR(D) = 1 - 0.85 + 0.85 \left(\frac{1}{2} + \frac{1}{2} + 1 \right)$$

$$PR(D) = 1.85$$

$$PR(D) = 1 - d + d \left(\frac{PR(C)}{2} \right)$$

$$PR(E) = 1 - d + d \left(\frac{PR(C)}{2} \right)$$

$$PR(E) = 1 - 0.85 + 0.85 \left(\frac{1}{1} \right)$$

$$PR(E) = 1$$

$$PR(A) = 1 - 0.85 + 0.85 \left(\frac{1}{2} \right)$$

$$PR(B) = 1 - 0.85 + 0.85 \left(\frac{1}{2} \right)$$

$$PR(B) = 0.575$$

$$PR(C) = 1 - 0.85 + 0.85 \left(\frac{1}{2} \right)$$

$$PR(C) = 0.394$$

$$PR(D) = 1.669$$

PR(F) = 1-0.85+0.85 (0.575

PR(E) = 0.638

For 3rd Iteration: 1,1(1)

$$PR(A) = 1 - 0.85 + 0.85 (1.669)$$

 $PR(A) = 1.568 (1.669)$

$$\frac{PR(B) = 1 - 0.85 + 0.85(1.722)}{PR(B) = 0.881}$$

$$\frac{PR(c) = 1 - 0.85 + 0.85(0.575)}{PR(c) = 0.394}$$

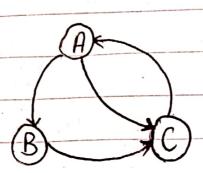
$$\frac{PR(D) = 1 - 0.85 + 0.85}{PR(D) = 1.668} = \frac{1 - 0.85 + 0.85}{2} = \frac{1.722 + 0.575,0638}{2}$$

$$\frac{PR(E) = 1 - 0.85 + 0.85 (0.394)}{[PR(E) = 0.484]}$$

Ans

QN0.02

Solution:



Consumer	Produce
A	A
B	$\gtrsim \beta$
C	\sim

Producer

V₁ V₂ V₃

Solver

V₁ 0 1 1

V₂ 0 0 1

V₃ 0 0 0

V₄ 0 0 0

V₅ 0 0 0

V₇ 0 0 0

Producer-Producer Cosine similarities Cosine $(V_1, V_2) = 0$

Cosine $(V_1, V_3) = 0$

Cosine $(V_2, V_3) = 0.70$

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