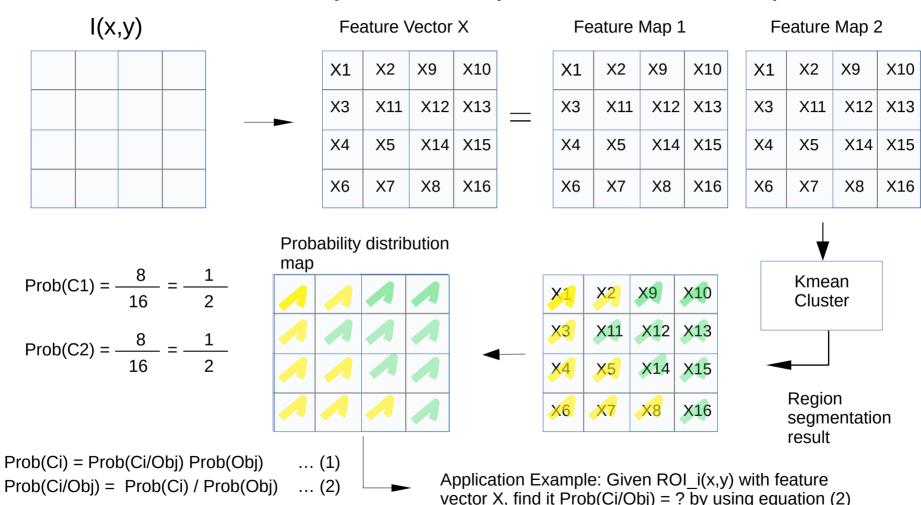
Probability Distribution Map and Kmean Cluster Technique



Probability Distribution Map and Kmean Cluster Technique (2/2)

Feature Vector X

$$X_{1} = \begin{bmatrix} 0 \\ 0 \end{bmatrix} \quad X_{2} = \begin{bmatrix} 1 \\ 0 \end{bmatrix} \quad X_{3} = \begin{bmatrix} 0 \\ 1 \end{bmatrix} \quad X_{4} = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$$

$$X_{5} = \begin{bmatrix} 7 \\ 1 \end{bmatrix} \quad X_{4} = \begin{bmatrix} 7 \\ 2 \end{bmatrix} \quad X_{7} = \begin{bmatrix} 7 \\ 2 \end{bmatrix} \quad X_{8} = \begin{bmatrix} 8 \\ 1 \end{bmatrix}$$

$$X_{9} = \begin{bmatrix} 6 \\ 6 \end{bmatrix} \quad X_{10} = \begin{bmatrix} 7 \\ 6 \end{bmatrix} \quad X_{11} = \begin{bmatrix} 8 \\ 1 \end{bmatrix} \quad X_{12} = \begin{bmatrix} 6 \\ 7 \end{bmatrix}$$

$$X_{13} = \begin{bmatrix} 7 \\ 7 \end{bmatrix} \quad X_{14} = \begin{bmatrix} 8 \\ 7 \end{bmatrix} \quad X_{15} = \begin{bmatrix} 9 \\ 7 \end{bmatrix} \quad X_{16} = \begin{bmatrix} 9 \\ 9 \end{bmatrix}$$

$$X_{17} = \begin{bmatrix} 8 \\ 8 \end{bmatrix} \quad X_{18} = \begin{bmatrix} 8 \\ 9 \end{bmatrix} \quad X_{19} = \begin{bmatrix} 9 \\ 9 \end{bmatrix} \quad X_{19} = \begin{bmatrix} 9 \\ 9 \end{bmatrix}$$

$$X_{19} = \begin{bmatrix} 9 \\ 9 \end{bmatrix} \quad X_{19} = \begin{bmatrix}$$