

Activity 14

$$S_1 = \begin{bmatrix} 0 \\ 1 \\ 0 \end{bmatrix} \cdot \begin{bmatrix} 0 & 1 & 2 \end{bmatrix} / \sqrt{3} = \frac{1}{\sqrt{3}}$$

$$S_2 = 1 \cdot \begin{bmatrix} 1 & 0 & 0 \end{bmatrix} / \sqrt{3} = 0$$

$$S_3 = 1 \cdot \begin{bmatrix} 0 & 0 & 1 \end{bmatrix} / \sqrt{3} = 0$$

$$S_4 = 1 \cdot \begin{bmatrix} 1 \\ 1 \\ 1 \end{bmatrix} / \sqrt{3} = \frac{1}{\sqrt{3}}$$

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B) S_1 and S_2 have higher weight

C) The output is a softmax of S_i ,
It is more related to the higher weighted vectors