

The **fat** **cat** sat on the mat

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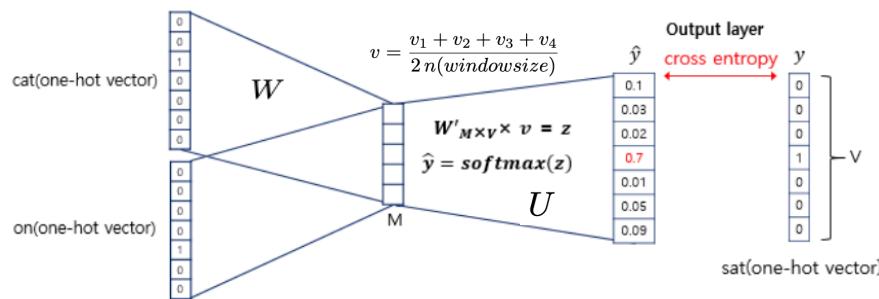
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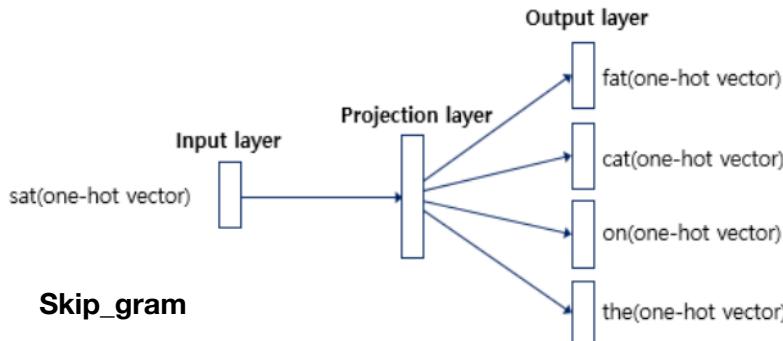
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중심 단어	주변 단어
[1, 0, 0, 0, 0, 0]	[0, 1, 0, 0, 0, 0], [0, 0, 1, 0, 0, 0]
[0, 1, 0, 0, 0, 0]	[1, 0, 0, 0, 0, 0], [0, 0, 1, 0, 0, 0], [0, 0, 0, 1, 0, 0]
[0, 0, 1, 0, 0, 0]	[1, 0, 0, 0, 0, 0], [0, 1, 0, 0, 0, 0], [0, 0, 1, 0, 0, 0]
[0, 0, 0, 1, 0, 0]	[0, 1, 0, 0, 0, 0], [0, 0, 1, 0, 0, 0], [0, 0, 0, 1, 0, 0]
[0, 0, 0, 0, 1, 0]	[0, 0, 1, 0, 0, 0], [0, 0, 0, 1, 0, 0], [0, 0, 0, 0, 1, 0]
[0, 0, 0, 0, 0, 1]	[0, 0, 0, 1, 0, 0], [0, 0, 0, 0, 1, 0], [0, 0, 0, 0, 0, 1]
[0, 0, 0, 0, 0, 1]	[0, 0, 0, 0, 1, 0, 0], [0, 0, 0, 0, 0, 1, 0]



- **CBOW**



- **Skip\_gram**

$$E = W$$

$$E = \frac{1}{2}(W + U)$$