

INPUT MATRIX

node one-hot vector 1
node one-hot vector 2
node one-hot vector 3
node one-hot vector 4
node one-hot vector 5

n x n

**x**

U

feature 1	feature 2	feature 3	feature 4	feature 5
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n x d

**x**

V

weight 1	weight 2	weight 3	weight 4	weight 5
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d x n

Softmax  
transformation

$$\frac{e^x}{\sum e^x}$$

=

OUTPUT MATRIX

probability distribution 1
probability distribution 2
probability distribution 3
probability distribution 4
probability distribution 5

n x n