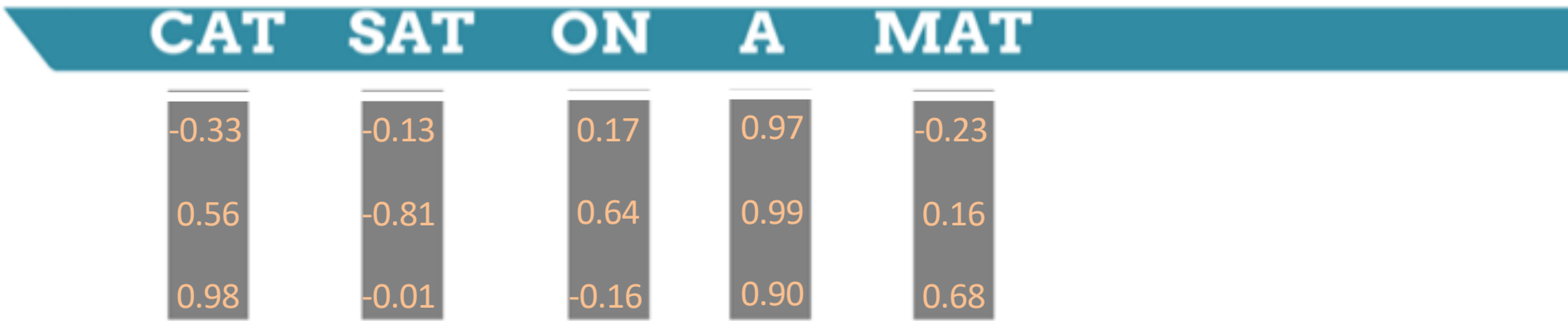
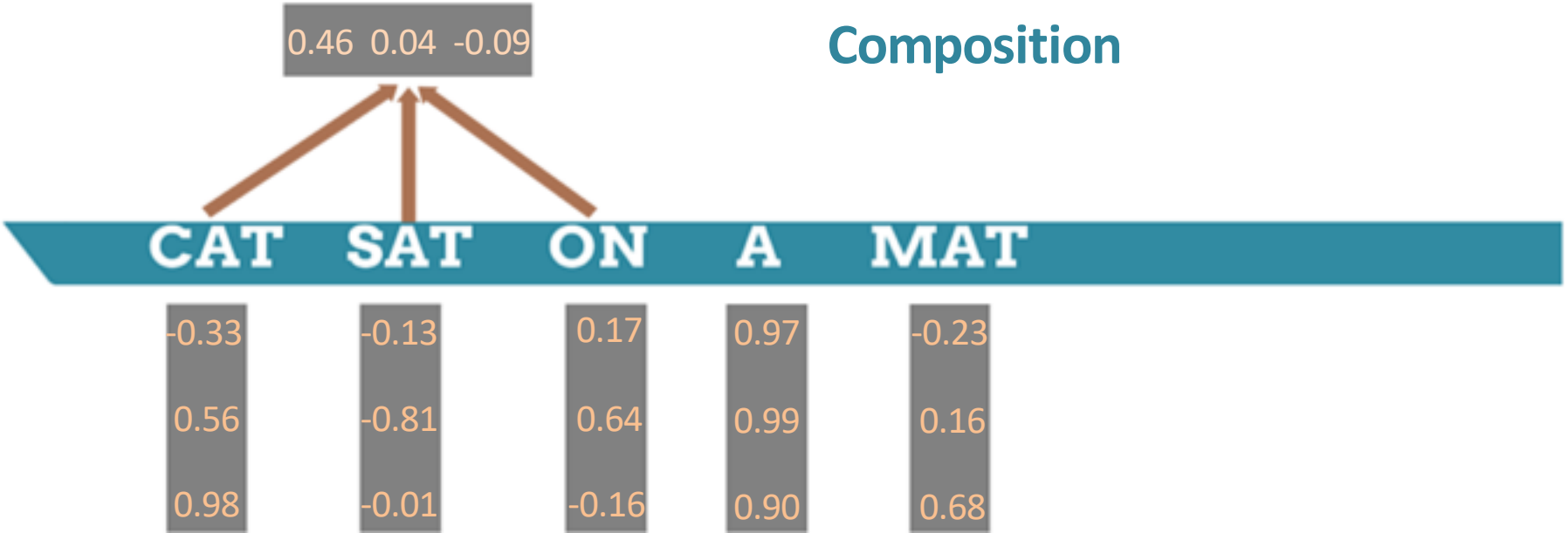

CAT SAT ON A MAT
-0.33 0.56 0.98
-0.13 -0.81 -0.01
0.17 0.64 -0.16
0.97 0.99 0.90
-0.23 0.16 0.68


0.46 0.04 -0.09
Composition
CAT SAT ON A MAT
-0.33
0.56
0.98
-0.13
-0.81
-0.01
0.17
0.64
-0.16
0.97
0.99
0.90
-0.23
0.16
0.68

1

$$\mathbf{x}_{1:n} = \mathbf{x}_1 \oplus \mathbf{x}_2 \oplus \ldots \oplus \mathbf{x}_n,$$

[-0.33 0.56 0.98 -0.13 -0.81 -0.01 0.17 0.64 -0.16]

2

$$c_i = f(\mathbf{w} \cdot \mathbf{x}_{i:i+h-1} + b).$$

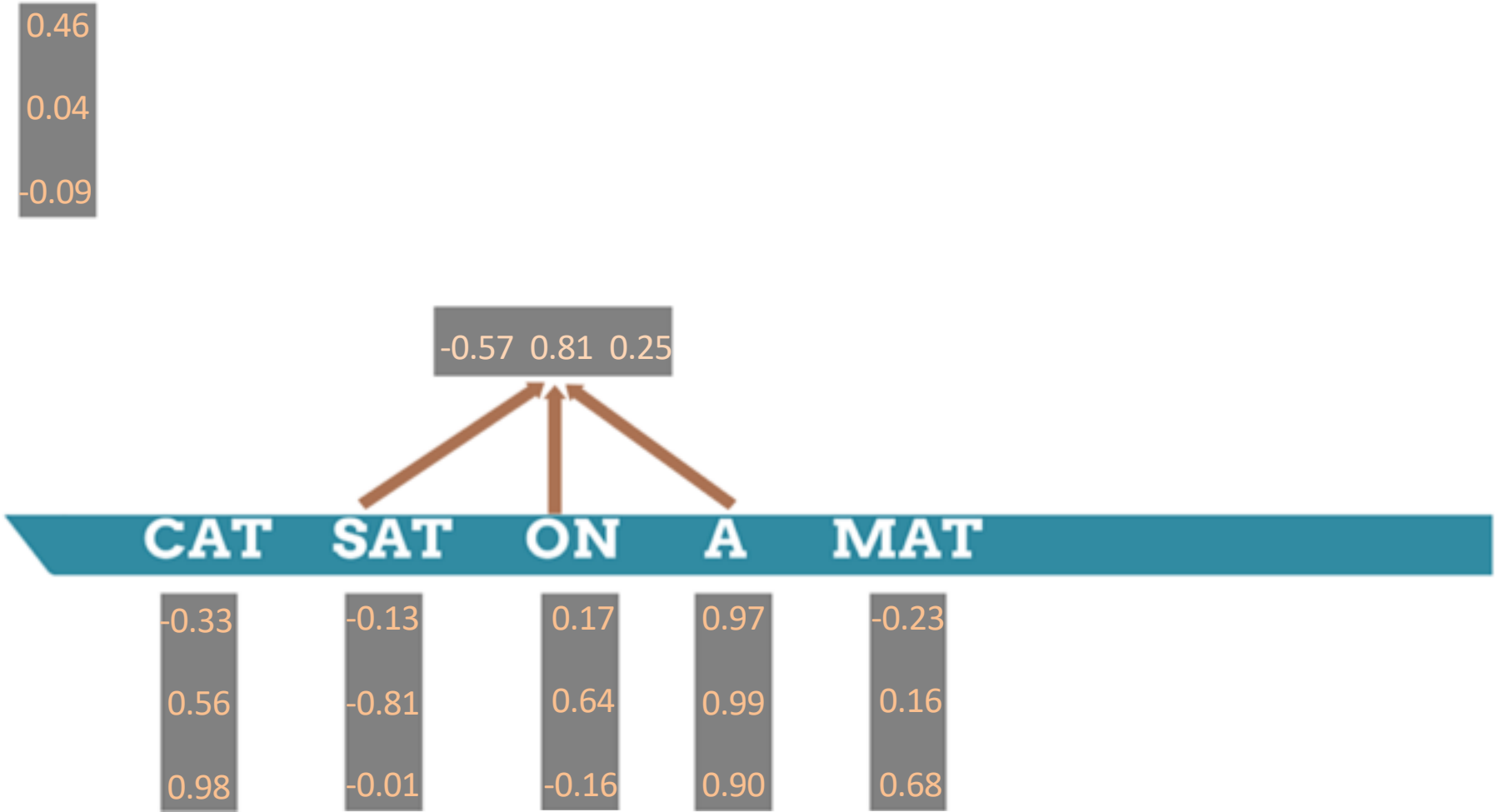
Weight Matrix
(3 x 9)

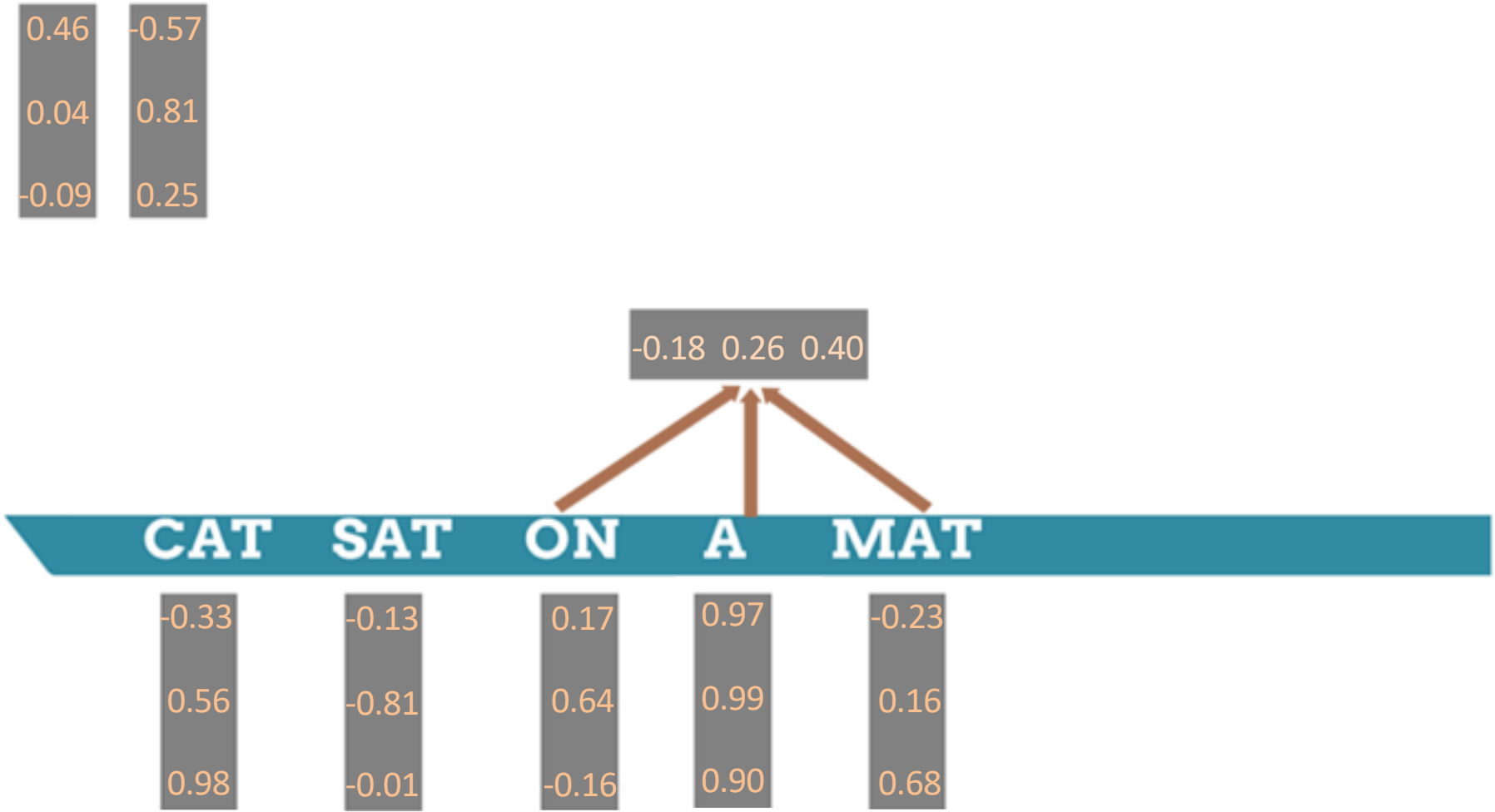
[-0.33 0.56 0.98 -0.13 -0.81
-0.01 0.17 0.64 -0.16]

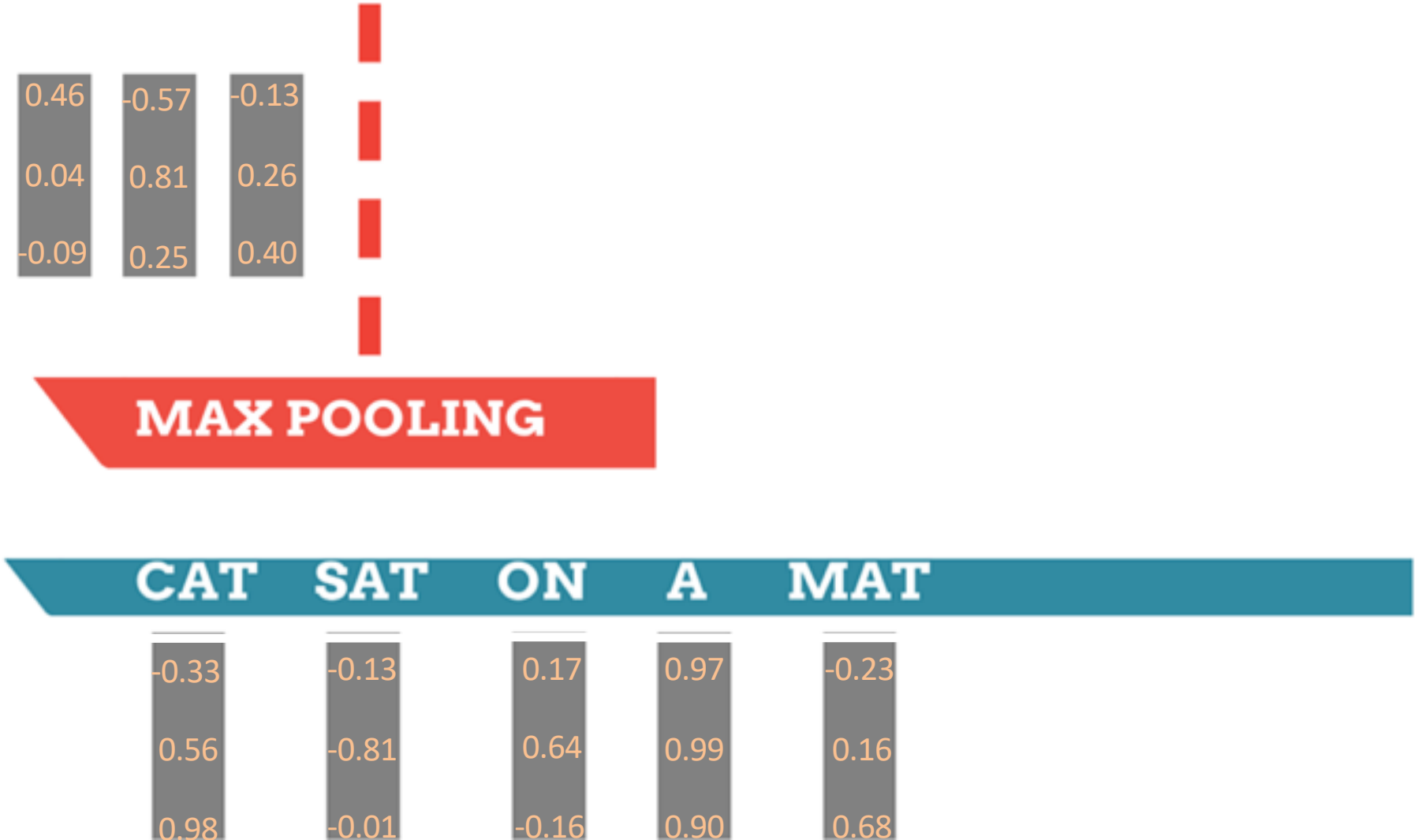
0.46 0.04 -0.09

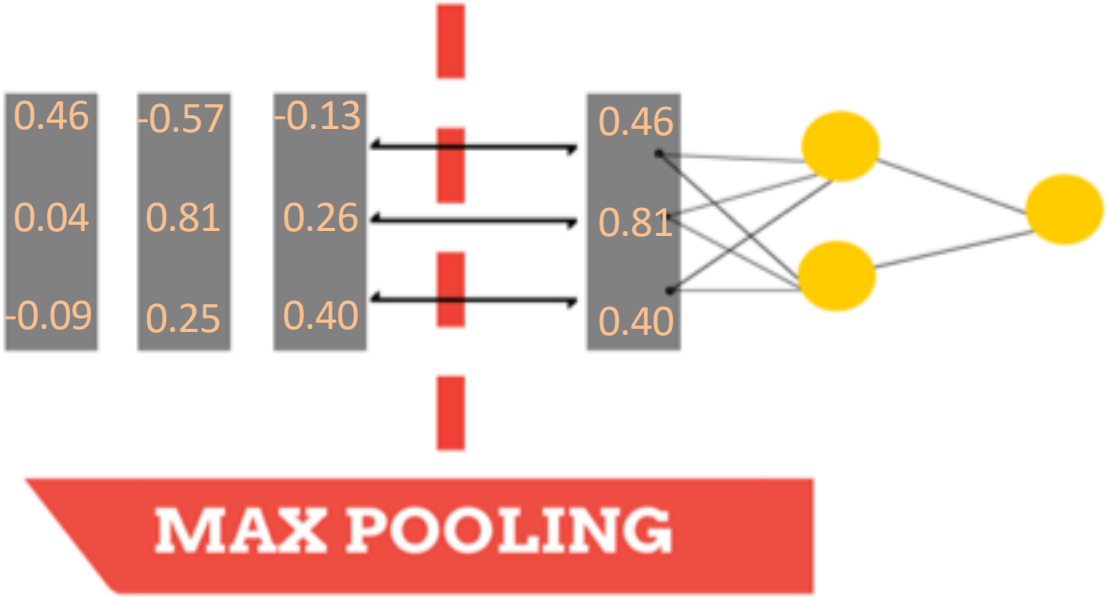
[0.46 0.04 -0.09]

-0.33	-0.13	0.17	0.97	-0.23
0.56	-0.81	0.64	0.99	0.16
0.98	-0.01	-0.16	0.90	0.68


0.46
0.04
-0.09
-0.57 0.81 0.25
CAT SAT ON A MAT
-0.33
0.56
0.98
-0.13
-0.81
-0.01
0.17
0.64
-0.16
0.97
0.99
0.90
-0.23
0.16
0.68

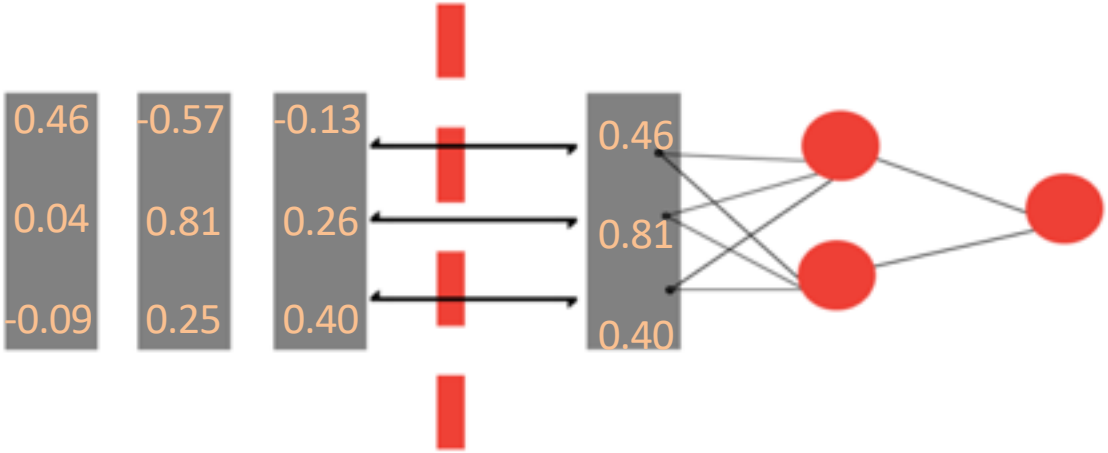

0.46
0.04
-0.09
-0.57
0.81
0.25
-0.18 0.26 0.40
CAT SAT ON A MAT
-0.33
0.56
0.98
-0.13
-0.81
-0.01
0.17
0.64
-0.16
0.97
0.99
0.90
-0.23
0.16
0.68


0.46
0.04
-0.09
-0.57
0.81
0.25
-0.13
0.26
0.40
MAX POOLING
CAT
SAT
ON
A
MAT
-0.33
0.56
0.98
-0.13
-0.81
-0.01
0.17
0.64
-0.16
0.97
0.99
0.90
-0.23
0.16
0.68



CAT SAT ON A MAT

-0.33	-0.13	0.17	0.97	-0.23
0.56	-0.81	0.64	0.99	0.16
0.98	-0.01	-0.16	0.90	0.68



MULTI LAYER PERCEPTRON

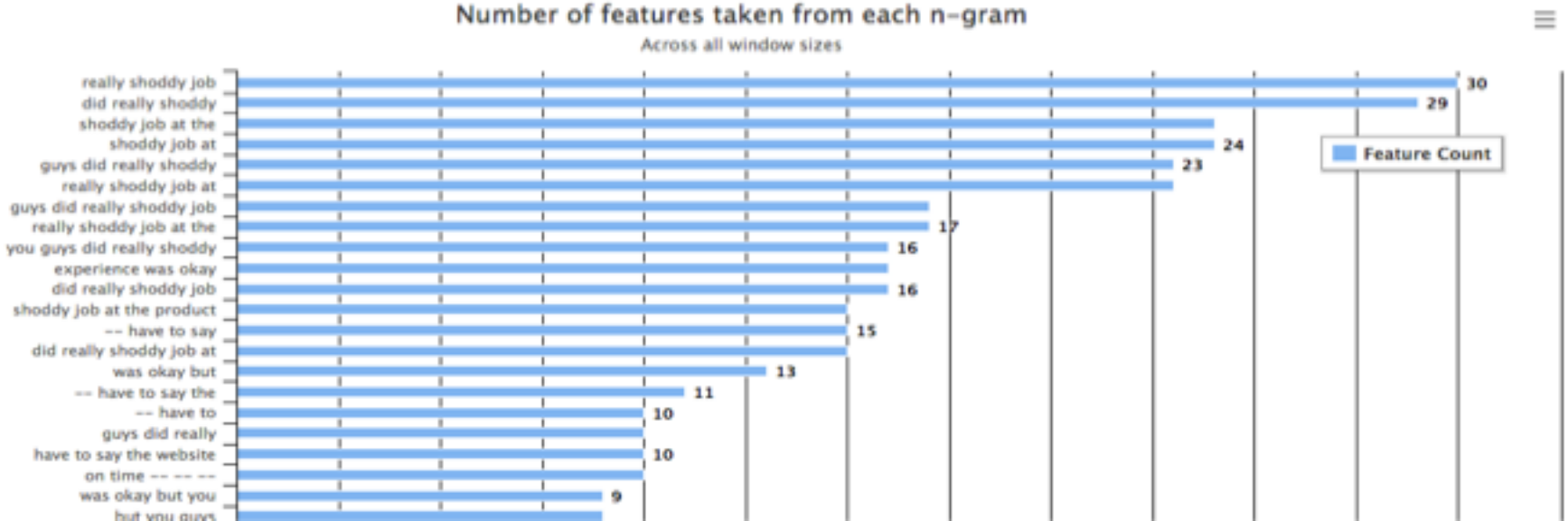
CAT SAT ON A MAT

-0.33	-0.13	0.17	0.97	-0.23
0.56	-0.81	0.64	0.99	0.16
0.98	-0.01	-0.16	0.90	0.68

DEMYSTIFYING MAX POOLING

- Finds the most important part(s) of sentence

Text: I have to say the website experience was okay, but you guys did a really shoddy job at delivering the product on time

Label for the tweet: neg

Probability scores for the labels were: neg:1.00000; neu:0.00000; pos:0.00000