Transforming Words into Vectors

To transform the context vectors into one single vector, you can use the following.

As you can see, we started with one-hot vectors for the context words and and we transform them into a single vector by taking an average. As a result you end up having the following vectors that you can use for your training.

Context words	Context words vector	Center word	Center word vector
I am because I	[0.25; 0.25; 0; 0.5; 0]	happy	[0; 0; 1; 0; 0]