

Vector Database

Data

how	are	you	who	are	you	who	am	I
-----	-----	-----	-----	-----	-----	-----	----	---

Query

am	I	you
----	---	-----

Word Embeddings

a	an	the	how	why	who	what	are	is	am	be	was	you	we	I	they	she	he	she	me	him	her
0	-1	0	1	0	1	0	0	-1	1	0	0	0	3	1	0	-1	0	0	0	-1	0
2	0	2	0	0	0	-1	1	0	0	0	2	1	0	2	0	2	0	0	2	0	0
-1	0	-1	1	2	0	0	1	0	1	-1	0	0	-1	0	3	0	0	-1	0	2	-1
0	1	0	0	1	0	1	0	1	0	1	-2	0	0	0	1	0	1	0	1	0	1

Text Embeddings

1	1	1

1	1	1

1	1	1

1	1	1

Encoder

1	1	0	0	0
0	1	0	1	0
1	0	1	0	-1
1	-1	0	0	0

Linear &
ReLU

Mean Pooling

Indexing

Projection

1	1	0	0
0	0	1	1

Vector
Storage

Retrieval

Dot Products

--

--

--

--	--

Nearest Neighbor (argmax)

--

--

--

--	--	--