

Word Embedding

→ DIFFERENT FROM CV & TF-IDF

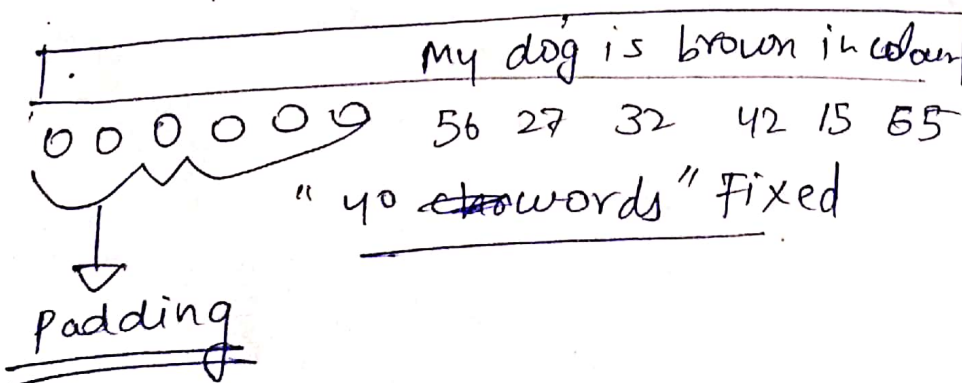
- 1) My dog is brown in color
 - 2) Cat is white
 - 3) Dog and Cat are freinds
 - ...

60000 Rows.

↓

['my dog is brown in color',
 'Cat is white',
 'Dog and cat are Freinds',
 ...]

"corpus"



60,000
Rows

0000	0	124	56	27	32	42	15	65
40 char words								
000	27	26	12	57	64	98	1040	
104	756	901	86	27	76	74		

[-, -, -, -, -, -, -, -, -]
 [-, -, -, -, -, -, -, -, -]
 [-, -, -, -, -, -, -, -, -]

properties of a word.

LSTM Model

First layer

Embedding Layer (vocab size, embedding-vector-length
input length = sent. length)

10K

100



40

40, 100



Training LSTM

LSTM Layer



~~Changing~~

Tuning Embedding
Layer with Label

My dog is brown in color

Cat is white

Dog and Cat are friends

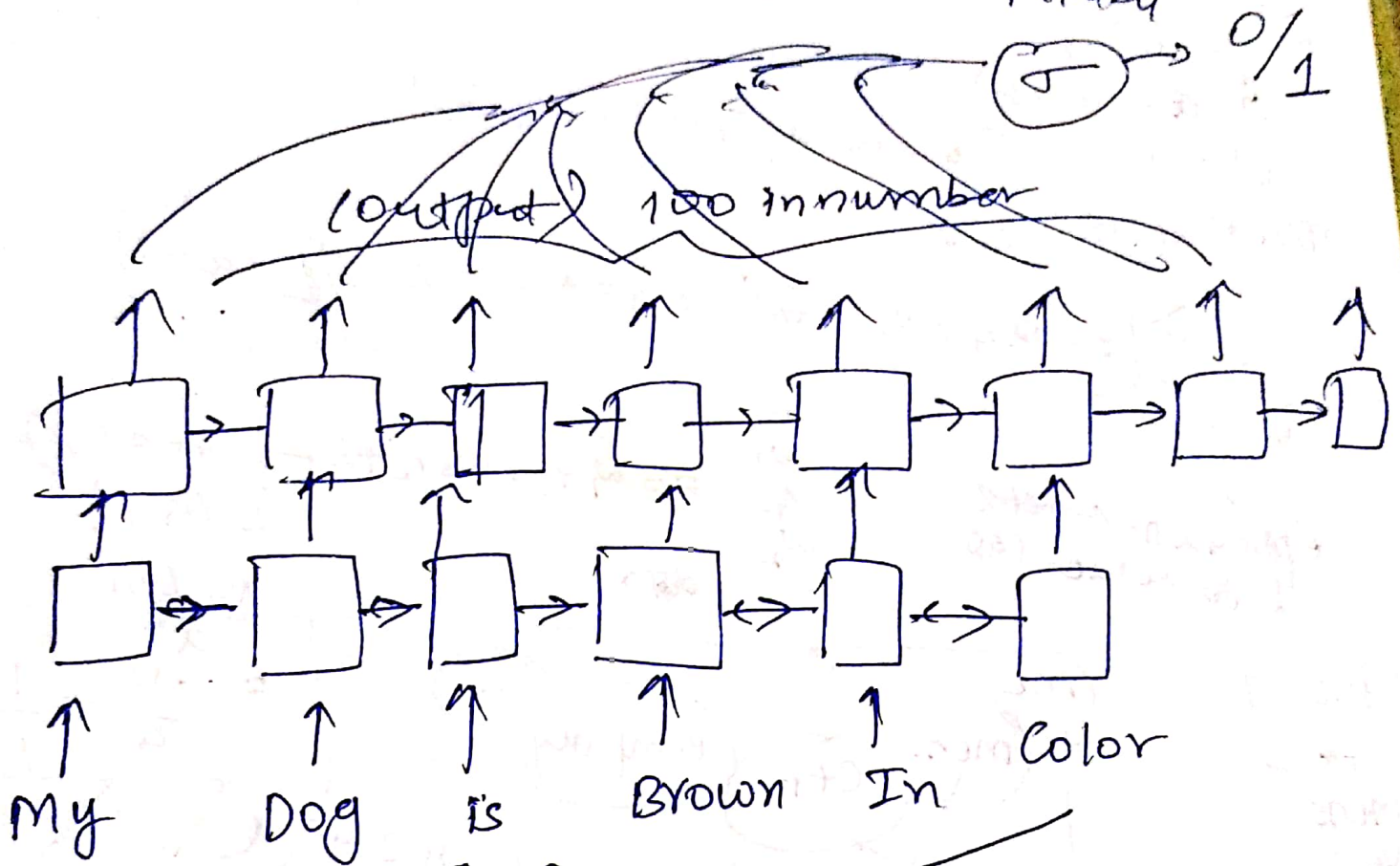
0 Neg

0 Neg

1 Pos

Trained Pattern will be implemented
to to prediction

... neural network model



40 words

LSTM Working

$$\begin{aligned} Z &= WX + B && \rightarrow \text{Linearity} \\ A &= \sigma(Z) && \rightarrow \text{Non Linearity} \end{aligned}$$