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D.L. Practical 5

Aim:- Implement the Continuous Bag of Word (CBOW) Model

Objective:-

a) Data preperation
b) Generate training data
c) Train model
d) Output.

Theory:-

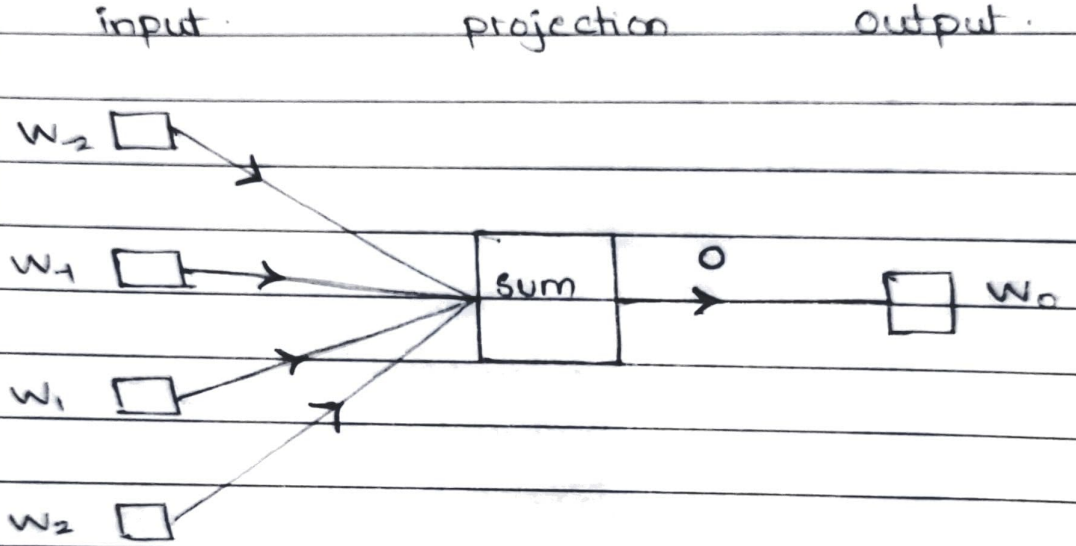
* Continuous Bag of word (CBOW) Model.

- The CBOW model tries to understand the context of the words and takes this as input. It then tries to predict words that are contextually accurate. Let us consider an example for understanding this. Consider the sentence: 'It is a pleasant day' and the word 'plesant' goes as input to the neural network we are trying to predict the word 'day' here. We will use the one-hot encoding for the input words and measure the error rates with the one-hot encoded target word.
- Doing this well help us predict the output based on the word with least error.

~~CBOW~~

Model Architecture:

CBOW:



Conclusion:-

We saw what a CBOW model is and how it works. We also implemented the model on a custom dataset and got good output. The purpose here was to give you a high-level idea of what word embeddings are and how CBOW is useful. These can be used for text recognition, speech to text conversion etc.