**Day 31**

**What to do?**

Learn about word embeddings.

**Word embeddings:**

Usually word embeddings are leveraged when deep learning is used for classifying text. They (word embeddings) act as the main building block for classifying text using deep learning techniques.

Word embeddings is the process of mapping words to vectors of real numbers. These are the strings that are represented by some real number.

Features of word embeddings:

* Words with similar semantics have smaller distance (Euclidean or cosine) than those that do not. For example, create and construct have similar semantic than create and break.
* No matter how many unique words there are in the text, there will be those many numbers of columns. For example, consider a text with 10 unique words. Hence, there will be 10 columns that one hot encodes the words.

Usually, word embeddings are created using one input layer, one hidden layer and one output layer.